

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
GAS CASE TESTIMONIES  
VOLUME 1**

| <u>TAB NO.</u> | <u>WITNESSES</u>                                                                                        |
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| 1              | <u>Gas Policy Panel</u><br>Marc Huestis<br>Marilyn Caselli<br>Matt Ketschke<br>Stuart Nachmias          |
| 2              | <u>Accounting Panel</u><br>Robert Muccilo<br>Scott Sanders<br>Edlyn Misquita<br>Kyle Ryan<br>Wenqi Wang |
| 3              | <u>Depreciation Panel</u><br>Matthew Kahn<br>Ned Allis - Gannett Fleming                                |
| 4              | <u>Income Tax Panel</u><br>Jeffrey Kalata<br>Matthew Kahn<br>Mike Rufino                                |

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1 **I. INTRODUCTION**

2 Q. Would the members of the Gas Policy Panel ("Panel") please  
3 state your names and business addresses?

4 A. Marc Huestis, Marilyn Caselli, Matthew Ketschke, and Stuart  
5 Nachmias. Our business address is 4 Irving Place, New York,  
6 NY 10003.

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

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

10 (HUESTIS) I am Senior Vice President, Gas Operations.

11 (CASELLI) I am Senior Vice President, Customer Operations.

12 (KETSCHKE) I am Senior Vice President, Customer Energy  
13 Solutions.

14 (NACHMIAS) I am Vice President, Energy Policy and Regulatory  
15 Affairs.

16 Q. Please explain your work experience, current general  
17 responsibilities and educational backgrounds.

18 A. (HUESTIS) I joined Con Edison in 1982 as a Management Intern.  
19 I have held various positions of increasing responsibility in  
20 Nuclear Power Generation, Steam Operations, Substation  
21 Operations, Construction, Electric Operations, and Gas  
22 Operations. I was promoted to Vice President Construction in  
23 October 2008, a position I held through December 2013. In

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1 January 2014, I was assigned to Manhattan Electric Operations  
2 as Vice President. In January 2015, I was promoted to Sr.  
3 Vice President, Gas Operations, assuming responsibility for  
4 all aspects of Gas Operations on February 1, 2015. In my  
5 current position as senior vice president for Gas Operations,  
6 I am responsible for the overall Con Edison Gas Operations,  
7 Engineering, and Compliance and Quality Assurance groups. I  
8 hold a bachelor's degree in Mechanical Engineering from  
9 Stevens Institute of Technology and a master's degree in  
10 Mechanical Engineering from Manhattan College. I have also  
11 completed Power Technology Institute's ("PTI") Power  
12 Technology Transmission Course.

13 (CASELLI) I began my employment with Con Edison in 1974. From  
14 1974 to 1989, I held positions of increasing responsibility  
15 within the Company, rising to the position of General Manager,  
16 Customer Operations for Queens. In 1992, I took the position  
17 of General Manager, Customer Operations for Brooklyn and then,  
18 in 1996, I took the position of General Manager, Gas  
19 Operations for Queens. In October 1997, I was elected to the  
20 position of Vice President, Customer Services for Staten  
21 Island and, in May 2005, I was promoted to my current role of  
22 Senior Vice President, Customer Operations. I have overall  
23 responsibility for the Company's customer service programs

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1 which include: customer outreach, meter reading, billing, and  
2 answering customer inquiries. I also oversee the  
3 administration of the Company's retail choice program that  
4 supports the competitive energy marketplace and the operations  
5 of the Telecom Applications Management (TeAM) group that  
6 provides access to Con Edison facilities and infrastructure  
7 for telecommunications purposes and manages the relationships  
8 between Con Edison and the telecommunications companies. I  
9 hold a Bachelor of Science degree in Business Administration  
10 from the State University of New York.

11 (KETSCHKE) I have been employed by Con Edison since 1995. I  
12 have held senior level positions in Electric Operations,  
13 Electric Construction, Electric Engineering, and Human  
14 Resources, including Vice President Manhattan Electric  
15 Operations, Human Resources Director, and General Manager of  
16 Electric Operations. In 2017, I assumed my current role as  
17 Senior Vice President of Customer Energy Solutions. I am  
18 responsible for Con Edison's integration of Distributed Energy  
19 Resources ("DER") into system design and operations, Con  
20 Edison's REV demonstration projects, and Con Edison's Energy  
21 Efficiency ("EE") and Demand Management ("DM") programs. I  
22 earned a Bachelor of Engineering degree in Mechanical  
23 Engineering and a Master of Science degree in Management

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1 Technology from Stevens Institute of Technology. Additionally,  
2 I earned a Master of Business Administration from Columbia  
3 University.

4 (NACHMIAS) I have worked for Con Edison since 1988. I began  
5 in the Company's management intern program, and worked in  
6 capital budgeting, customer sales and revenue forecasting and  
7 corporate planning. I worked to develop the state's plan for  
8 deregulation, including establishing the New York ISO. I also  
9 worked at Con Edison Solutions from 1997 to 2000, initially in  
10 the wholesale power group and later as marketing manager for  
11 large business customers. After leaving the Company from  
12 2000-2001, I rejoined Con Edison in the Energy Markets Policy  
13 Group, focused on competitive wholesale electric and gas  
14 markets. I have had increasing responsibilities in this area,  
15 as well as a one-year job rotation in customer operations,  
16 where I worked on customer complaints to executives and the  
17 Commission. As Vice President, Energy Policy and Regulatory  
18 Affairs, I am currently responsible for development of energy  
19 policy and the management of state and federal regulatory  
20 matters. I was also President of the New York Transco, an  
21 electric transmission development company whose members  
22 include all of New York's investor-owned utilities, from  
23 November 2014 until December 2018. I graduated from the State

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1 University of New York at Binghamton with a bachelor's degree  
2 in Economics and Psychology and also earned a Master of  
3 Business Administration degree with a concentration in Finance  
4 from Baruch College. I also earned an Advanced Certificate in  
5 Energy Management from the New York Institute of Technology,  
6 and completed a Power Technologies Inc. ("PTI") Distribution  
7 Engineering program.

8 Q. Have you previously testified in Commission proceedings?

9 A. Yes. We have all testified in Commission proceedings.

10 **II. OVERVIEW**

11 Q. What are the core principles that guide the Company's  
12 development of projects and programs to meet the needs of its  
13 gas customers?

14 A. Our core principles are safety, operational excellence and  
15 enhancing the customer experience. In furtherance of these  
16 principles, we continue to focus on advancing our energy  
17 future - where safe, reliable, resilient and clean energy will  
18 allow our customers and our region to continue to grow and  
19 prosper. We will continue to work hand-in-hand with our  
20 customers and stakeholders to draw upon the best ideas in the  
21 marketplace, implement cost-effective and environmentally  
22 sound solutions, and provide customers new ways to better  
23 manage their energy use.

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1 Our customers are at the core of everything we do. Our first  
2 priority every day is safety - for our customers, as well as  
3 our employees and the public.

4 We are seeing customers' expectations continue to grow as they  
5 seek more control over their energy use, more convenience in  
6 working with us, and more advice about their energy options.

7 To meet these expectations, we continue to pursue excellence  
8 in all of our operations, optimizing our work processes,  
9 enhancing productivity, and reducing costs for customers.

10 We are leveraging technology in new ways, including our smart  
11 meter network, to enhance our service, reliability, and  
12 resilience, and to detect and respond to natural gas leaks.

13 Q. What is the purpose of the Panel's testimony in this gas rate  
14 proceeding?

15 A. We will

- 16 • present an overview of the Company's strategy in applying  
17 its three core principles of safety, operational excellence  
18 and enhancing the customer experience to the gas and gas-  
19 related projects and programs that comprise the Company's  
20 gas business plans for the next three years;
- 21 • highlight the major projects and programs that comprise the  
22 Company's plans to maintain, enhance, upgrade, extend and  
23 innovate the infrastructure that is essential to the



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1 Company's ability to provide safe and reliable service to  
2 our customers;

3 • discuss various initiatives the Company is pursuing to  
4 enhance the customer experience and further engage  
5 customers;

6 • describe Company efforts to implement clean energy goals by  
7 increasing energy efficiency, reducing peak day demand and  
8 seeking cost-effective alternatives to new gas  
9 infrastructure;

10 • discuss the Company's overall approach to managing  
11 expenditures cost effectively and cost efficiently;

12 • express the Panel's support for incentive ratemaking  
13 proposals sponsored by various Company witnesses;

14 • present the status of the Company's response to several  
15 Commission management and operations audits; and

16 • present the status of the Company's Climate Change  
17 Vulnerability Study.

18 Q. Which Company witness panels present these initiatives,  
19 projects and programs?

20 A. The Gas Infrastructure, Operations and Supply Panel ("GIOSP"),  
21 Customer Energy Solutions ("CES") Panel, Customer Operations  
22 Panel, Shared Services Panel, Municipal Infrastructure Support

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1 Panel, and Information Technology ("IT") Panel present the  
2 essential details of these projects, programs and initiatives.

3 Q. What period of time do these presentations cover?

4 A. These presentations cover multi-year periods, including  
5 calendar year 2020, which is the Rate Year (or "RY1") for this  
6 gas rate filing, and calendar years 2021 and 2022, referred to  
7 as "RY2" and "RY3", respectively.

8 Q. How does the Company propose to fund these projects and  
9 programs?

10 A. To effectuate these projects and programs, the Company seeks  
11 in this rate filing a revenue increase of \$210 million in RY1.  
12 As discussed by the Accounting Panel, the Company also  
13 presents illustrative revenue requirement increases for RY2  
14 and RY3 in order to facilitate the Company, Staff and other  
15 interested parties developing a multi-year rate plan to  
16 present to the Commission for approval.

17 **III. GAS OPERATIONS STRATEGY**

18 Q. Please describe the nature of Con Edison's gas service.

19 A. Con Edison operates in one of the largest, most dynamic  
20 metropolitan areas in the world. We serve over 1.1 million  
21 gas customers (including accounts representing many additional  
22 consumers), from single-family homes, to high-occupancy high-  
23 rise office buildings, apartments, hospitals, schools and

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1 colleges. These consumers depend on Con Edison for safe,  
2 reliable gas service to meet essential needs.

3 Q. Are there unique challenges to providing gas service within  
4 the Company's service territory?

5 A. Yes. Providing gas service in the New York City ("NYC")  
6 portion of our service territory presents unique challenges.  
7 The Company's many miles of gas transmission and distribution  
8 facilities share space with many other types of utilities that  
9 make up NYC's infrastructure - subways, water and steam mains,  
10 and underground electric, cable and fiber optic lines.  
11 Accordingly, Company work on its gas facilities is both  
12 impacted and dictated by critical facilities owned, operated  
13 and maintained by or for other constituents, thereby providing  
14 less flexibility and requiring greater coordination in all  
15 aspects of the Company's gas operations. These operations  
16 include continually monitoring, repairing, replacing and  
17 upgrading our gas system to maintain and enhance our provision  
18 of safe and reliable service to our customers, as well as  
19 maintain a safe environment for our employees and the general  
20 public.

21 Q. Are there additional challenges associated with serving new  
22 gas customers?

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- 1 A. Yes. During recent years, there has been a significant  
2 increase in demand for natural gas service, largely driven by  
3 conversion of buildings using heavier heating oils (#6 and #4  
4 oil) as well as home heating oil (#2).
- 5 While the Company has met this demand to date, the Company  
6 currently faces challenges in acquiring the additional firm  
7 gas supplies needed to meet the continuing growth in gas  
8 winter peak demand. As discussed later in this testimony, the  
9 Company is exploring alternative means to satisfy this gas  
10 demand through non-pipe alternatives, similar in many respects  
11 to the non-wires alternatives that the Company pursues with  
12 respect to its electric service, including advancing energy  
13 efficiency and demand response programs for existing gas  
14 customers and working to advance new clean alternative heating  
15 options for new customers. Pending the successful  
16 implementation of these and other initiatives, the Company has  
17 instituted a temporary moratorium for new gas service in most  
18 of Westchester County, as discussed later in our testimony.
- 19 Q. Please describe the strategies the Company uses to  
20 continuously enhance safety, reduce risk and improve  
21 operational efficiency.

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1 A. To improve its performance, the Company takes a comprehensive  
2 approach to risk mitigation. Our strategy includes enhanced  
3 prevention, detection and response.  
4 We utilize the American Petroleum Institute's Recommended  
5 Practice (API RP 1173) "Pipeline Safety Management System,"  
6 which establishes the essential elements of a holistic gas  
7 pipeline safety management system for pipeline operators.  
8 This standard promotes implementation of a Plan-Do-Check-Act  
9 cycle, to provide continuous improvement and feedback loops  
10 for our existing practices, procedures and management systems.  
11 This standard is cascaded into our Transmission and  
12 Distribution Integrity Management Programs ("DIMP" and  
13 "TIMP").  
14 Our Pipeline Safety Management personnel identify industry  
15 best practices and incorporate them into our TIMP and DIMP.  
16 These programs help us identify and mitigate risks to our  
17 system. We use the information to guide the enhancement of  
18 our programs and the creation of new programs.  
19 The Company then targets investments for the gas distribution  
20 and transmission systems to provide for greater reliability,  
21 reduced impacts of coastal flooding and reduced risk of events  
22 that can result in property damage or impact public safety.

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1 Q. Please describe the categories of gas investments designed to  
2 address safety, risk reduction, reliability and operational  
3 efficiency that largely come out of the DIMP and TIMP  
4 programs.

5 A. The categories of gas investments include the following areas  
6 of gas operations:

- 7 • Distribution projects and programs to reduce risk and  
8 enhance safety, which are primarily identified through our  
9 DIMP;
- 10 • Transmission projects and programs to reduce risk and  
11 maintain reliability of our transmission facilities, which  
12 are primarily identified through our TIMP;
- 13 • Customer Connections projects and programs;
- 14 • Technical Operations projects and programs that focus on  
15 contingencies in the event of an incident that may impact  
16 our external supply sources, in particular, upgrades to the  
17 Company's LNG Plant; and
- 18 • IT projects and programs to reduce administrative and  
19 operational risk and achieve improved efficiencies and  
20 management of operations, programs and projects.

21 Q. What is the purpose of the DIMP?

22 A. The purpose of the DIMP is to enhance public and employee  
23 safety by identifying and prioritizing gas distribution

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1 pipeline integrity risks and implementing mitigating measures  
2 to address them. These risks include distribution system  
3 leaks, excavation damages, and human error (which the Company  
4 continually seeks to minimize).

5 Q. Please highlight some of the planned projects and programs  
6 that are designed to maintain and enhance system safety,  
7 reliability and resilience for customers, while reducing  
8 environmental impacts.

9 A. The Integrity Management program examines risk on our system  
10 through data analytics, subject matter expert input, root  
11 cause analysis, lessons learned from industry events,  
12 effective change management, open communication and  
13 standardization, which in turn lead to the improvement of  
14 existing programs or the creation of new programs to reduce  
15 risk and, as a result, enhance safety. Key initiatives  
16 include:

- 17 • replacing all 12-inch and smaller cast iron, wrought iron,  
18 and unprotected steel by 2036;
- 19 • enhancing and leveraging new leak detection technologies;  
20 and
- 21 • responding to and repairing leaks in a timely manner.

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1 Under the Distribution Improvement Program, the Company  
2 replaces sub-standard and undersized mains on both a proactive  
3 and emergent basis.

4 Under the Large Diameter Gas Main Program, the Company  
5 replaces or rehabilitates large diameter gas mains where the  
6 loss of service, in many cases, could lead to customer outages  
7 during the winter heating season.

8 Under the Service Replacement Program, the Company coordinates  
9 replacement of services with replacement of gas mains in order  
10 for Company work to be less disruptive to customers.

11 Under the Isolation Valve Program, the Company installs  
12 isolation valves to be used in the event of an imminent or  
13 actual uncontrolled release of natural gas or need to isolate  
14 an area for safety; the program is focused on infrastructure  
15 near critical facilities such as hospitals and schools, in NYC  
16 and Westchester County.

17 Q. Do these programs also provide environmental benefits?

18 A. Yes. Many of these facility replacement programs have and  
19 will reduce Greenhouse Gas ("GHG") emissions.

20 Q. Is the Company also enhancing its leak detection initiatives?

21 A. Yes. Detection of gas leaks through state-of-the-art  
22 technology is critical to our comprehensive approach to risk



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1 management and commitment to public safety. In furtherance of  
2 this objective, the Company is

- 3 • investing in natural gas detectors to be installed near  
4 building service points of entry that are designed to send  
5 an alarm to our Gas Emergency Response Center ("GERC") when  
6 natural gas is detected, leveraging the communications  
7 infrastructure being installed for our smart meters; GERC  
8 personnel will then contact the fire department and  
9 dispatch an emergency response crew; and
- 10 • continuing to evaluate cavity ring down spectroscopy  
11 ("CRDS") leak detection technology, a state-of-the-art  
12 mobile methane leak detection technology

13 Through enhanced leak detection, we can identify, respond and  
14 remediate leaks more rapidly, reducing risk, keeping the  
15 public safe, and protecting the environment by reducing  
16 emissions of methane, a greenhouse gas.

17 Q. Please describe the Gas Reliability Improvement Program.

18 A. This program has several components, including continuing to  
19 reduce the risk of an over pressurization event; upsizing  
20 mains and regulator stations to avoid large-scale outages  
21 during peak demand periods; and rehabilitating regulator  
22 stations by replacing unserviceable equipment and verifying  
23 that regulators are adequately sized to provide the capacity

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1 to meet existing and added load in the event of the loss of  
2 other system components.

3 Q. What are the major projects and programs planned for the  
4 Company's gas transmission facilities?

5 A. The Company has various gas transmission projects and programs  
6 that are focused on maintaining or enhancing system safety and  
7 reliability, including:

- 8 • installing remotely operating valves ("ROVs") to provide  
9 for rapid isolation of a compromised section of the  
10 transmission facilities;
- 11 • replacing sections of transmission main containing leaks or  
12 defects that cannot be made safe using a maintenance repair  
13 technique;
- 14 • upgrading the Newtown Creek Metering Station, including  
15 adding equipment to enable the Company to control the flow  
16 rate to National Grid and thereby protect Con Edison  
17 customers from abnormal operating conditions;
- 18 • installing Con Edison-owned over-pressure protection  
19 ("OPP") equipment at Transco (Manhattan) and Tennessee  
20 (Rye) gate stations, which is designed to provide for the  
21 safe operation of our gas transmission facilities in the  
22 event that Transco- or Tennessee-owned OPP devices at these  
23 gate stations fail and the maximum allowable operating

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1 pressure ("MAOP") of the pipeline cannot otherwise be  
2 controlled; and

3 • replacing existing gas mains to reduce risk and provide  
4 contingency for the loss of the Tennessee gate station at  
5 White Plains.

6 Q. Does the Company have a new approach to growth-related  
7 projects, that is, customer connections to the gas system?

8 A. Yes. Historically, the Company addressed gas growth through  
9 several programs including Traditional New Business, NYC Area  
10 Growth Program, #2 oil-to-gas ("OTG") conversions in NYC,  
11 Westchester gas conversions, and Westchester Area Growth.  
12 Going forward, the Company has consolidated these programs  
13 into one program called the "Customer Connections Program."

14 Q. What are the reasons for the new consolidated program?

15 A. The NYC Area Growth Program, which was established to address  
16 NYC-mandated conversions from #6 and #4 fuel oils, is  
17 essentially complete. In accordance with the program's  
18 guidelines, by the end of 2019 all eligible customers will  
19 have been offered the opportunity to participate in an Area  
20 Growth Zone, no new zones will be added, and we have ceased  
21 our marketing efforts associated with this program. The  
22 Company does need to complete inspections and construction

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1 associated with work requests that were previously submitted  
2 by customers that requested participation in this program.

3 Also, the Company has discontinued the Westchester Area Growth  
4 program, which was initiated in White Plains and Port Chester  
5 where there is a high concentration of multi-family and  
6 commercial oil heating customers to target conversion to  
7 natural gas. Discontinuation was due to a combination of gas  
8 supply constraints and the Company receiving minimal interest  
9 for conversions in these areas.

10 Q. Is there still customer demand for conversions to natural gas  
11 in the Company's service territory?

12 A. Yes. Under the Customer Connections program, the Company will  
13 continue to proactively work with customers to manage their  
14 energy needs and costs, and support new construction and  
15 customers seeking gas service if gas supply is not  
16 constrained. Unfortunately, as discussed later in our  
17 testimony, there are gas supply constraints that have  
18 compelled the Company to announce a temporary moratorium on  
19 connecting new gas customers in most of Westchester County.

20 Q. Have these changes in growth-related programs impacted the  
21 rate filing?

22 A. Yes. The rate filing reflects a small forecasted reduction  
23 from historical service and main installation levels.

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1 Forecasted sales revenues are also lower than they would be if  
2 the Company was continuing to pursue an aggressive new gas  
3 customer program.

4 Q. Please discuss the Company's planned modernization of its  
5 liquefied natural gas ("LNG") plant.

6 A. The LNG plant has historically played a critical role in the  
7 Company's gas supply planning and reliability of gas service.  
8 The LNG plant serves as a cost-effective alternative to more  
9 expensive firm peaking supplies and to potentially mitigate  
10 short term price volatility. It is also the only source of  
11 in-City natural gas from which Con Edison gas customers can be  
12 supplied in the event of an interstate pipeline interruption  
13 or other emergency condition affecting the Company's external  
14 gas supply. In addition, in light of the severe constraints  
15 the Company currently faces in securing additional gas  
16 pipeline capacity to its service territory, the LNG plant's  
17 supply and reliability benefits are increasingly important.  
18 In order to continue safe and reliable plant operations, and  
19 enhance the contribution of the LNG plant in gas supply  
20 planning, the Company plans to replace and/or upgrade several  
21 of the plant's systems.

22 Q. What are some of the major upgrades planned for the LNG Plant?

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1 A. A new nitrogen refrigeration closed loop system will replace  
2 original, obsolete equipment and provide the cryogenic  
3 chilling required to liquefy natural gas and fill the LNG tank  
4 in six months. The new system will also have an efficient  
5 turbine that will produce less air emission per million cubic  
6 feet of LNG produced.

7 We plan to install a new vaporizer to replace Vaporizer No. 1,  
8 which is near the end of its useful life. This will complete  
9 the replacement of the Plant's five vaporizers.

10 These upgrades in combination with other upgrades to critical  
11 plant components, such as instrumentation and electric  
12 distribution equipment, will significantly improve overall  
13 plant reliability, liquefaction capability and flexibility,  
14 which will allow us to rely on the maximum LNG plant  
15 capability in our gas supply planning.

16 Q. Does the Company have any projects associated with its tunnel  
17 facilities?

18 A. Yes. There are eight utility tunnels on the Company's system,  
19 which house critical gas, electric and steam facilities, as  
20 well as fuel oil lines and telecommunications systems, and  
21 serve as critical pathways for service lines, for the most  
22 part, under bodies of water. Structures and components in the  
23 tunnels, such as elevators, structural concrete, ladders and

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1 landings, ventilation fans, and electric and communication  
2 systems, are subject to corrosion and deterioration due to  
3 ground water intrusion and exposure to extreme moisture, salt,  
4 humidity, and heat. Accordingly, these structures and  
5 components require continuous maintenance, refurbishment,  
6 replacement or upgrade in order to maintain or enhance system  
7 reliability and resiliency, employee safety, and to enable  
8 continued access to critical infrastructure.

9 Q. How has the Company demonstrated its commitment to enhancing  
10 clean energy and environmental performance?

11 A. The Company has converted more than 7,600 large buildings from  
12 oil to cleaner natural gas, which has contributed to New York  
13 City reporting that it has achieved its cleanest air in 50  
14 years. Fine particulate matter reduction has been a focus of  
15 the Company since 2011, when we created and staffed a team to  
16 support NYC's "Clean Heat" regulations. We have reduced 534  
17 tons of fine particulate matter (2.5 microns) from the air -  
18 the equivalent of 1.7 million cars off the road. We have been  
19 a member of the EPA's Natural Gas STAR Program since its  
20 inception in 1993. The Natural Gas STAR Program is a  
21 flexible, voluntary partnership that encourages natural gas  
22 companies to adopt proven, cost-effective technologies and  
23 practices to improve operational efficiency and reduce methane

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1 emissions. Nearly all distribution sector methane emissions  
2 are due to leaks, and the Company is focused on eliminating  
3 leaks, of course addressing hazardous leaks first, and  
4 continues to make leak information available to the public on  
5 its website. The Company also participates in industry  
6 reporting and benchmarking efforts.

7 Q. Are the Company's planned investments likely to further reduce  
8 methane emissions?

9 A. Yes. As noted earlier in our testimony, the Main Replacement  
10 Program will not only improve safety by reducing the risk of  
11 potential gas leaks, but will also reduce methane emissions by  
12 greatly reducing the likelihood of leaks. Our work with new  
13 natural gas detection technologies to better identify and  
14 quantify gas leaks will also allow us to respond more quickly  
15 when leaks occur, which while primarily a safety benefit,  
16 will also help reduce methane emissions.

17 Q. Are there any planned projects from an Information Technology  
18 ("IT") perspective?

19 A. Yes, from both a gas operations perspective and an overall  
20 Company perspective.

21 Q. Please explain



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1 A. The Company's IT organization continues to focus on projects  
2 and programs designed to address needs of all the Company's  
3 systems, and customers, including

- 4 • implementing a new Customer Service System, which we  
5 discuss later in our testimony, and an Enterprise  
6 Geographic Information System;
- 7 • reducing and modernizing the Company's portfolio of more  
8 than 500 IT-supported applications and migrating to a core  
9 set of business systems in order to simplify processes and  
10 reduce infrastructure costs and licensing fees;
- 11 • modernizing and consolidating Company data centers and  
12 leveraging cloud technologies;
- 13 • maintaining confidentiality and privacy of data and  
14 personally-identifiable information; and
- 15 • investing in and leveraging new technologies designed to  
16 improve business processes, reduce costs, and protect  
17 against new and evolving cyber security threats.

18 A number of these IT projects and programs are focused on  
19 cyber security, which is a top risk. Since a successful cyber  
20 security attack could result in operating failures of control  
21 systems, damage to transmission and distribution assets, or  
22 the loss of sensitive data, the Company allocates extensive  
23 resources to mitigating the risk of a successful cyber-attack

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1 and thereby avoid safety and/or reliability consequences to  
2 our customers, our employees and the general public.

3 Q. Please discuss the major gas IT initiatives described in this  
4 filing.

5 A. The major initiatives designed to support core gas business  
6 functions include asset work management, and several IT  
7 projects that the Company initiated during the current gas  
8 rate plan, replacing the Integrated Gas Supply ("IGS") system  
9 and updating the Transportation Customer Information System  
10 ("TCIS"). The Company initiated these projects to update the  
11 technology, streamline processes, accommodate new functional  
12 requirements to support changing market conditions,  
13 accommodate new retail access program initiatives, and adhere  
14 to the corporate strategy to consolidate applications. We  
15 expect TCIS to be completed in RY1 and IGS in RY2.

16 Q. Has the Company included business plans for its IT  
17 investments?

18 A. The Company has included business plans for our largest IT  
19 investments - the Customer Service System, which is sponsored  
20 by the Customer Energy Solutions Panel, and the Enterprise  
21 Geographic Information System, which is sponsored by the  
22 Electric Infrastructure and Operations Panel in the Company's  
23 electric rate filing, with support from the GIOSP. The other

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1 IT investments are accompanied by white papers that discuss  
2 expected savings, including financial benefits and reduced and  
3 avoided costs, where appropriate. The white papers also  
4 explain why the Company chose the solution it is proposing to  
5 implement.

6 **IV. ENHANCING CUSTOMER EXPERIENCE AND ENGAGEMENT**

7 Q. Is the Company pursuing new initiatives to enhance the  
8 customer experience and further engage customers?

9 A. Yes. The Company is engaging in a series of new efforts,  
10 including the formation and implementation of the Company's  
11 new Customer Energy Solutions organization, the Next  
12 Generation Customer Experience Initiative, a new Customer  
13 Service System ("CSS") and its smart meter program.

14 Q. What is driving these Company initiatives?

15 A. The energy industry is undergoing a rapid transformation.  
16 Over the next decade, New York's electricity and gas systems  
17 will become significantly cleaner and more efficient,  
18 flexible, reliable, and resilient. The drivers underlying  
19 this transformation include (i) new technologies that change  
20 energy needs; (ii) evolving customer expectations regarding  
21 choice, control and convenience with respect to their energy  
22 use; and (iii) policy goals advancing customer choice,  
23 sustainability, and changing the energy supply mix.

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1 The utility business, both electric and gas, will need to  
2 evolve and change to facilitate State policies directing 50%  
3 renewables and 40% reduction in GHG emissions by 2030, energy  
4 efficiency equivalent to three percent of electric sales by  
5 2025, and increased adoption of heat pumps to increase  
6 beneficial electrification, among other State objectives.

7 Q. What actions has Con Edison taken to recognize and more  
8 effectively address this evolution?

9 A. First, in order to maximize the potential success of  
10 investments and initiatives designed to both meet these State  
11 objectives as well as enhance the customer experience, Con  
12 Edison recognized that having an organization capable of  
13 innovatively and proactively accommodating these shifts is  
14 critical to facilitating this transformation. Accordingly, in  
15 2017, the Company established the Customer Energy Solutions  
16 organization in order to enable innovation across Company  
17 functions directly influencing the customer experience,  
18 including in energy efficiency and demand management programs,  
19 the smart meter program, development of the new CSS, and  
20 ratemaking, as well as Company functions involved in  
21 implementing various Reforming the Energy Vision ("REV")  
22 initiatives.

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1 The CES organization, in conjunction with Customer Operations,  
2 Gas Operations and other Company departments are collectively  
3 working to

- 4 • enhance the customer experience through the integration of  
5 clean energy resources;
- 6 • enable our customers to better manage their energy usage,  
7 thereby reducing environmental impacts and energy burdens;
- 8 • enhance the safety, reliability and excellence in the  
9 management of our energy systems; and
- 10 • foster innovation throughout Con Edison to drive towards a  
11 more DER-enabled, customer-focused system;

12 while continuing to meet the Company's fundamental  
13 responsibility to provide our customers with safe and reliable  
14 service.

15 Q. What is the Next Generation Customer Experience ("Next Gen  
16 CX") initiative?

17 A. The Next Gen CX Initiative is a set of strategic business  
18 objectives and associated programs designed to enable Con  
19 Edison to continue to be a trusted energy provider by offering  
20 increased customer choice, control and convenience through  
21 personalized services across a variety of engagement channels.

22 Q. What are the strategic business objectives?

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1 A. The strategic business objectives are creating an industry-  
2 leading customer experience, operational efficiency and an  
3 empowered workforce, which we plan to achieve by creating  
4 personalized and straightforward experiences that are valuable  
5 to our customers; improving our processes, reducing cost and  
6 improving service to customers; and providing employees with  
7 better tools to meet customer expectations.

8 Q. Please describe the nature of the investments the Company  
9 plans to make to implement these objectives.

10 A. The investments fall within the following three areas:

- 11 • Omni-Channel Optimization, which focuses on a seamless  
12 self-service experience leading to greater customer  
13 satisfaction and lower cost to serve by utilizing modern,  
14 personalized and intelligent tools for our customers.
- 15 • Business Intelligence, which will use advanced  
16 data/analytics to drive new customer and business insights  
17 and leverage real-time analytics to enable strategic  
18 business decisions and introduce customer-specific  
19 recommendations to increase customer satisfaction.
- 20 • Back Office Automation and Agent Tools, which will develop  
21 intelligent tools designed to help our employees work  
22 efficiently and focus on value-add customer focused

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1 activities, and improve our core processes that support  
2 technology and public safety.

3 Q. What are some of the enabling investments associated with  
4 Omni-Channel Optimization?

5 A. Omni-Channel Optimization seeks to deliver modern,  
6 personalized, and intelligent self-service tools to our  
7 customers via a seamless multi-channel experience. This  
8 effort will streamline customers' experience with the Company  
9 over multiple touch points and platforms, including web,  
10 mobile, text, email, chat, paper billing, and phone calls.  
11 Specific investments include Journey Mapping, which studies  
12 the entire arc of a customer's interaction (e.g., moving)  
13 instead of a single touch point (e.g., a phone call to the  
14 Company); building on and expanding the scope of the Company's  
15 Digital Customer Experience ("DCX") initiative; modernizing  
16 our paper bills to better align with the experience customers  
17 receive on our website; and a state-of-the-art Virtual  
18 Assistant that will provide immediate service, enhancing  
19 customer satisfaction while managing costs.

20 Q. Please describe the nature of the enabling investments  
21 associated with Business Intelligence tools.

22 A. Business Intelligence investments are focused on advanced  
23 analytics, which are designed to centralize key customer data

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1 to more deeply understand customer behavior, attitude and  
2 preferences leading to more advanced and personalized  
3 experiences; and tools, which utilize interaction insights  
4 from advanced analytics to provide employees and customers  
5 with self-service options with real-time customer-specific  
6 services and offerings.

7 Q. Please describe enabling investments associated with Process  
8 Efficiency improvements.

9 A. The Company is focused on developing back office automation  
10 tools designed to:

- 11 • automate back office processes and tasks using robotic  
12 process automation, in order to reduce operating costs and  
13 provide faster customer service;
- 14 • better manage exceptions that require employee review,  
15 resulting in improved transaction efficiency and customer  
16 service;
- 17 • provide enhanced tools to empower customer-interacting  
18 employees to provide better service in order to improve  
19 customer satisfaction; and
- 20 • provide a single system for Con Edison employees to quickly  
21 access and understand process, procedure and policy  
22 content.



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1 Q. What other initiatives is the Company pursuing to enhance the  
2 customer experience?

3 A. The Company is pursuing significant IT system investments to  
4 replace its legacy customer service system with a new, modern  
5 system ("CSS") and to deploy smart meters across the service  
6 territory.

7 Q. Please explain why the Company is developing a new CSS.

8 A. Con Edison's Customer Service System performs all of the  
9 Company's meter-to-cash processes, including billing, payment  
10 processing, and collections. The system holds all  
11 confidential customer information, meter, and premise-level  
12 data. As such, it is critical to the core functioning of the  
13 Company. The current system is a mainframe-based system that  
14 went into service in 1972 and is reaching the end of its  
15 useful life. Maintaining the system is becoming increasingly  
16 difficult as the programming language has become all but  
17 obsolete, leading to high ongoing maintenance costs and  
18 reduced flexibility to implement new rates and programs.  
19 The Company's 2016 gas and electric rate plans directed that  
20 the Company should begin implementing the CSS replacement. As  
21 noted earlier in our testimony, the Company has developed a  
22 business plan for this effort. The Company's current plan

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1 will conduct the detailed design and build of the new program  
2 during RY1, RY2, and RY3, with a projected launch in 2023.

3 Q. Please discuss the status of the Company's smart meter  
4 program.

5 A. The Company is in the midst of deploying smart meters across  
6 the service territory. Smart meters help customers with  
7 access to more information, and facilitate control, choice,  
8 and convenience. The communications infrastructure being  
9 deployed as part of the implementation, and the data available  
10 from the smart meters, will enable the Company to better  
11 understand and more reliably operate its energy delivery  
12 systems as well as enable future added capabilities.  
13 The Company is on target (and budget) to complete the program  
14 by 2022, which includes the installation of approximately 3.6  
15 million smart electric meters, and approximately 1.2 million  
16 smart gas meters that are being modified or replaced  
17 altogether.

18 Q. Are there other Company initiatives designed to enhance the  
19 customer experience and further engage customers?

20 A. Yes. The Company is proposing to establish a new credit and  
21 debit card bill payment program, investing in customer  
22 experience center disaster hardening, establishing off-system  
23 billing, enhancing revenue protection analytics, expanding

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1 electronic correspondence, as well as enhancing the Company's  
2 long-standing customer outreach and education and low income  
3 programs.

4 **V. CLEAN ENERGY SOLUTIONS, INCLUDING TEMPORARY GAS MORATORIUM**

5 Q. What is the Company's overall approach to clean energy  
6 solutions?

7 A. The Company supports State and local clean energy policy goals  
8 and is committed to helping achieve those goals by integrating  
9 clean energy resources and helping our customers, especially  
10 low and moderate income ("LMI") customers, better manage their  
11 energy usage.

12 The Company is advancing its Smart Solutions program. There  
13 are several elements including expanding gas energy efficiency  
14 ("EE"), starting a gas demand response program, pursuing non-  
15 pipeline alternatives, and testing innovative business models  
16 to deploy clean heating technologies. We discuss the Smart  
17 Solutions program later in our testimony.

18 Q. Please describe the Company's gas energy efficiency program  
19 reflected in this rate filing.

20 A. The Company is proposing to implement a combined electric and  
21 gas energy efficiency portfolio that would add new programs  
22 and new delivery channels; innovate to deliver more savings  
23 more cost-effectively; use data analytics to target outreach

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1 and increase marketing effectiveness; and further develop data  
2 governance processes to report results with a high degree of  
3 confidence. The Company may modify this program at the  
4 preliminary update stage of this proceeding.

5 Q. Please explain why the Company may modify this program.

6 A. As discussed by the Customer Energy Solutions Panel, on  
7 December 13, 2018, the Commission issued its Order Adopting  
8 Accelerated Energy Efficiency Targets in Case 18-M-0084 ("EE  
9 Order"). The EE Order adopts Con Edison-specific budgets and  
10 targets for calendar year 2020 (i.e., Rate Year 1 for these  
11 proceedings), and certain processes for the development of  
12 energy efficiency programs by all utilities for the period  
13 2021 through 2025 (which five-year period includes the  
14 illustrative Rate Year 2 (2021) and Rate Year 3 (2022)  
15 presented by the Company in these rate filings).

16 The Commission issued the EE Order at or about the time that  
17 the Company was finalizing its revenue requirements for the  
18 rate filings. The Company did not have adequate time to  
19 complete its review and evaluation of its EE program in light  
20 of the EE Order prior to finalizing its revenue requirements.

21 Q. Why is the Company proposing to manage its electric and gas  
22 energy efficiency programs as a single portfolio?

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1 A. The integration of electric and gas programs is consistent  
2 with the Commission's call for annual site energy savings  
3 targets on a BTU basis that account for both electricity and  
4 natural gas (as well as other delivered fuels consumed by the  
5 residential, commercial, and industrial sectors), and will  
6 provide the Company flexibility to manage program expenditures  
7 in a manner designed to most effectively achieve the annual  
8 site energy savings targets.

9 For purposes of ratemaking, cost recovery and reconciliation,  
10 the Company proposes to continue to allocate the projected  
11 costs of electric energy efficiency programs to electric  
12 customers, excluding NYPA-supplied customers, and to allocate  
13 the projected costs of gas energy efficiency programs to firm  
14 gas customers; to recover costs through base rates and  
15 amortize costs over a 10-year period; and reconcile the costs  
16 included in the electric and gas revenue requirements at the  
17 end of the three-year period 2020 through 2022, subject to an  
18 overall cap on recovery of costs equal to the sum of the  
19 aggregate budgets established for electric and gas for all  
20 three years of this period.

21 Q. Is the Company undertaking any other clean energy solutions  
22 for its gas customers?

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1 A. Yes. The Company is pursuing its Smart Solutions for Natural  
2 Gas Customers program ("Smart Solutions"), which the Company  
3 first presented to the Commission in a petition filed in  
4 September 2017.

5 Q. Please describe the major elements of this program as  
6 described in further detail in the testimony of the Customer  
7 Energy Solutions Panel.

8 A. Four initiatives comprise the Smart Solutions program:

- 9 • Increasing the Company's natural gas energy efficiency  
10 programs (the "Enhanced Natural Gas Efficiency Program");
- 11 • Developing a natural gas demand response pilot program;
- 12 • Issuing a competitive market solicitation (the "Non-  
13 Pipeline RFP") to acquire resources as part of non-pipeline  
14 solutions ("NPS") to offset the Company's needs for  
15 pipeline capacity, reduce use of third-party-controlled  
16 pipeline capacity, and make greater progress in reaching  
17 environmental goals; and
- 18 • Testing whether business model innovation can increase  
19 customer access to renewable thermal resources ("Gas  
20 Innovation Program").

21 Q. What is the status of these four initiatives?

22 A. The status of the four initiatives is as follows:

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- 1       • Enhanced Natural Gas Efficiency Program: On July 12, 2018,  
2       the Commission approved the Company's request to expand its  
3       gas energy efficiency program with an increase in  
4       authorized funding. The Company proposes in these rate  
5       filings to manage a combined portfolio of electric and gas  
6       energy efficiency programs that include the programs and  
7       associated funding for the Enhanced Natural Gas Energy  
8       Efficiency Program.
- 9       • Natural Gas Demand Response Pilot: On August 9, 2018, the  
10      Commission approved the Company's proposed gas demand  
11      response pilot, authorizing the Company to spend up to \$5  
12      million over three years to fund the costs of customer  
13      incentives, metering, and administration of the pilot.
- 14     • Non-Pipeline RFP: On September 28, 2018, the Company  
15      submitted a petition to the Commission requesting \$305  
16      million to fund a portfolio of non-pipeline resources (the  
17      "NPS Portfolio") that we selected from third party  
18      proposals submitted in response to a request for proposals  
19      initiated by the Company in December 2017. As of the date  
20      of this rate filing, the Commission had not acted on this  
21      petition.
- 22     • Gas Innovation Program: On June 18, 2018, the Company  
23      issued a solicitation to the marketplace for proposals

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1           designed to encourage business innovation to increase  
2           customer access to renewable thermal resources. The  
3           Company evaluated proposals submitted in response to this  
4           market solicitation and selected three proposals that are  
5           the subject of a submission to the Commission that occurred  
6           on December 20, 2018.

7           Funding for the Non-Pipeline RFP and Gas Innovation programs  
8           is not requested in this rate filing. Funding will be  
9           determined by Commission orders issued on these two programs.

10    Q.    For portions of both the EE and Smart Solutions programs, the  
11           Company has sought to amortize project costs as regulatory  
12           assets. Please explain why such treatment is in the best  
13           interest of customers.

14    A.    As more fully explained by the CES Panel, such a framework  
15           mitigates immediate bill impacts for customers by smoothing  
16           expenses over the period when benefits will be realized and  
17           also collects those costs from the customers taking service  
18           over that period of time.

19    Q.    Are there other benefits to amortizing the costs over 10  
20           years?

21    A.    The Company supports a regulatory framework that treats energy  
22           efficiency, demand response, and other non-pipeline solutions  
23           on a parity with traditional investments (i.e., as regulatory



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1 assets recoverable over longer terms, which better match the  
2 recovery period with the program benefits and include a return  
3 on such investments). The combination of EAMs and regulatory  
4 asset treatment of non-pipeline solutions to drive preferred  
5 policy outcomes can result in both superior performance and  
6 meaningful cost efficiency.

7 Q. Has the Company recently implemented a temporary moratorium on  
8 new gas sales?

9 A. Yes. On January 17, 2019, Con Edison notified the Secretary  
10 of the New York State Public Service Commission as well as  
11 active parties in Cases 16-G-0061 and 17-G-0606 that it was  
12 establishing a temporary moratorium on connecting new gas  
13 customers in most of Westchester County. Customers may apply  
14 for service until March 15, 2019.

15 Q. Why did the Company initiate this moratorium?

16 A. This temporary moratorium is necessary because there are gas  
17 supply constraints in this part of our service territory that  
18 limit our ability to meet customer demand on the coldest  
19 winter days. While we have and will continue to pursue  
20 alternatives as laid out in our Smart Solutions program, we do  
21 not currently forecast that these programs will be sufficient  
22 to offset customer demand on the coldest winter days and  
23 thereby avoid the temporary moratorium.

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1 Q. What is the extent and nature of this moratorium?

2 A. The moratorium will apply to new firm gas customers in the  
3 affected areas of Westchester County that will increase winter  
4 peak demand, including heating, hot water, laundry, and  
5 cooking loads. Existing customers are not affected. During  
6 the temporary moratorium, the Company will continue to accept  
7 applications from new customers that do not contribute to peak  
8 day demands, such as applications for interruptible service or  
9 gas service for emergency generators.

10 Q. Under what circumstances does the Company anticipate being  
11 able to lift this temporary moratorium?

12 A. The moratorium will remain in effect until peak demand in  
13 those areas is sufficiently reduced through energy efficiency,  
14 gas demand response or alternative energy programs or new gas  
15 pipeline infrastructure than can meet the State's requirements  
16 and provide supply capacity to the affected areas.

17 Q. What actions is the Company taking to provide customers  
18 affected by the temporary moratorium with non-gas options for  
19 space heating and water heating?

20 A. The Company currently provides incentives that can reduce  
21 equipment costs for qualifying customers choosing to install  
22 electrically-powered air source heat pumps and heat pump water  
23 heaters, and is working with NYSERDA to make customers aware

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1 of additional incentives provided by NYSERDA to reduce the  
2 equipment costs of cold-climate air source heat pumps and  
3 geothermal heat pumps. The Company's gas conversion group  
4 will staff a toll-free number that affected customers can call  
5 to learn about Company and NYSERDA programs, and the Company  
6 will educate customers about their options and assist them in  
7 participating in Con Edison and NYSERDA renewable heating  
8 incentive programs

9 To the extent Commission action in the Smart Solutions  
10 petition results in additional programs, the Company will be  
11 able to provide customers with more options through these  
12 programs.

13 **VI. MANAGING EXPENDITURES COST EFFECTIVELY AND COST EFFICIENTLY**

14 Q. Please describe the Company's planning and budgeting process.

15 A. The Company seeks to manage its future costs by considering  
16 solutions to reliably meet needs while increasing overall  
17 efficiency. Annual budgets and shorter-term plans must be  
18 linked to the long-range plan through the development of  
19 annual business plans. Risk management is also integrated  
20 into the budget process. Annual business plans include an  
21 update and discussion of resources committed to mitigate  
22 risks. All of this information feeds the Company's Capital

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1 Optimization process that evaluates projects and programs and  
2 drives optimized expenditure decisions.

3 Q. Is the Company experiencing increased costs associated with  
4 its capital programs?

5 A. Yes. The GIOSP explains the primary drivers of increased  
6 costs, which include new roadway restoration requirements  
7 imposed in NYC and various municipalities in Westchester  
8 County, and higher material costs associated with the higher  
9 quantities of larger diameter plastic and steel we are  
10 installing to improve system reliability. The GIOSP also  
11 explains the actions the Company is taking to manage these  
12 costs.

13 Q. The Accounting Panel and the Municipal Infrastructure Support  
14 Panel propose that the current gas net plant reconciliation  
15 mechanism be modified to eliminate the \$10 million cap on  
16 upward reconciliation associated with municipal infrastructure  
17 support (also known as interference) expenditures. They also  
18 propose full bilateral reconciliation of interference O&M  
19 expenses.

20 Q. Do you agree with these proposals?

21 A. Yes, we do. As explained by these Panels, interference  
22 capital and O&M expenditures are driven by factors largely

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1 outside of the Company's control and cannot be reasonably  
2 forecasted.

3 Q. Is the Company proposing the continuation of any other  
4 reconciliation mechanisms that are specific to gas service?

5 A. Yes. The Company's current rate plan provides for the  
6 deferral of O&M expenses associated with the Company's  
7 implementation of the Commission's new definition of gas  
8 service lines and implementation of federal regulations  
9 implemented pursuant to the Pipeline Safety Act of 2011. As  
10 the GIOSP and Accounting Panel explain, the Pipeline Safety  
11 Act deferral mechanism will continue and the gas service line  
12 deferral mechanism will convert to a reconciliation mechanism;  
13 although the revenue requirement reflects estimated costs to  
14 address the new service line definition, Company expenses to  
15 implement these initiatives cannot be reasonably forecasted.

16 Q. Is the Company planning to use any particular tools to  
17 implement its gas programs in a cost-effective manner?

18 A. Yes. The Gas Central System is our gas work and asset  
19 management system under development. It will be a single  
20 repository for work and asset related data that we will first  
21 deploy in 2019 to facilitate improved regulatory compliance,  
22 operational efficiencies, and financial insights; coordinate  
23 all construction, operations, and maintenance activities; and

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1 enable field personnel to interface with the system on a  
2 mobile platform (for example, receive, acknowledge and perform  
3 action on incoming work requests).

4 Some of the anticipated benefits from this program are:

- 5 • an integrated view of financial and operational data for  
6 better trending and analysis;
- 7 • more effective risk mitigation strategies and movement to a  
8 more proactive approach to integrity management; and
- 9 • increased transparency and visibility into materials  
10 management, job costing, resource availability, operational  
11 productivity, and operational efficiencies.

12 The Company is also mindful of the impact on our customers and  
13 the communities we serve when performing system improvements  
14 and reinforcements. By better coordinating construction,  
15 operating and maintenance programs, work is performed in a  
16 more efficient and timely manner. For example, the GIOSP  
17 explains actions we take to limit the number of times we  
18 return to excavate a particular area and enhanced  
19 communications with public officials, community boards and  
20 city agencies in advance of commencing work.

21 Q. What is the Company's Business Cost Optimization program?

22 A. Business Cost Optimization, or BCO, is the name of the  
23 Company's recent initiative to optimize its operating and

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1 capital costs, with a particular focus on reducing its O&M  
2 costs.

3 Q. Was the Company seeking to optimize these costs prior to  
4 commencing the BCO program?

5 A. Absolutely. As detailed by Company witnesses in prior Con  
6 Edison rate filings, the Company routinely undertakes many  
7 cost-savings efforts designed to reduce the overall cost of  
8 providing service to customers. Moreover, as explained in  
9 these testimonies, these initiatives include efforts to reduce  
10 or minimize costs that are, for the most part, outside of the  
11 Company's reasonable control, such as property taxes and  
12 municipal infrastructure support costs.

13 Q. What makes the BCO program different from these cost-saving  
14 efforts?

15 A. Prior to the BCO program, cost-savings efforts have, for the  
16 most part, been developed on a department-by-department  
17 basis. For example, during the Company's annual budget  
18 process, each Company organization is tasked with  
19 identifying cost-savings initiatives when it develops its  
20 individual budget. In contrast, our new BCO initiative is a  
21 structured and comprehensive approach to identifying and  
22 implementing cost reduction opportunities on a Company-wide  
23 basis that considers the operating and capital expenditures

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1 at both Con Edison and Orange & Rockland Utilities, Inc.  
2 ("O&R"). In an effort to maximize cost-saving  
3 opportunities, the Company retained the services of an  
4 experienced consultant, who specializes in cost reduction  
5 programs, to assist in setting up the framework for the  
6 assessment and to provide input on best practices.

7 Q. Please describe the nature and status of the BCO program.

8 A. The initial stage of the program, conducted during the fourth  
9 quarter of 2017, was a diagnostic stage. During this stage,  
10 the Company worked with the consultant to conduct an in-depth  
11 review of the Company's spend patterns by cost category,  
12 resource type and function. We used cost trend data and  
13 internal and external benchmarking to isolate areas to focus  
14 on and identify potential cost savings opportunities. As a  
15 result of these efforts, the Company identified potential cost  
16 saving initiatives for Con Edison and O&R, which were then  
17 prioritized based on several factors, including feasibility,  
18 cost to achieve and estimated savings. Over the coming months  
19 and years, many of these initiatives will progress into  
20 implementation.

21 Q. Does the Company present in the gas rate filing BCO  
22 initiatives that the Company plans to pursue?



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1 A. Yes. Various Company operating panels, including GIOSP,  
2 Customer Operations Panel, and Customer Energy Solutions  
3 Panel, among others, discuss in their testimonies the cost-  
4 saving initiatives that they plan to pursue as a result of  
5 their participation in the BCO process.

6 Q. What are some of the challenges the Company faces in  
7 implementing BCO initiatives?

8 A. Each level of the program faces challenges and risks. During  
9 ideation and design, there must be certain assumptions made  
10 based on our current environment. As an initiative is further  
11 developed, those assumptions might change.

12 Q. Have projected savings associated with these initiatives been  
13 taken into account as part of the Company's budget processes  
14 for the three-year period 2020 through 2022?

15 A. Yes. Con Edison has incorporated the projected savings  
16 opportunities in the budgets developed for these years. This  
17 reflects the Company's commitment to identify, flesh out and  
18 implement these initiatives, or to find new initiatives in  
19 order to meet the overall reduction opportunities.

20 Q. Are the full amount of these projected savings reflected in  
21 the revenue requirements for RY1, RY2 and RY3?

22 A. Approximately seventy percent of these projected savings are  
23 credited to the revenue requirements for the three rate years.

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1       Accordingly, assuming the establishment of a three-year rate  
2       plan in this proceeding, gas customers will receive the  
3       benefit of 70% of these projected savings whether or not the  
4       Company achieves them. Moreover, on a going-forward basis  
5       following the end of the multi-year rate plan, customers will  
6       receive the full benefit of any efficiencies actually achieved  
7       by the Company.

8   Q.   Why is the Company not crediting the full amount of the  
9       projected savings to the revenue requirements?

10  A.   As explained by the Accounting Panel in its testimony, the  
11       proposed credits to the revenue requirements are approximately  
12       three times the size of the one percent productivity  
13       adjustment traditionally incorporated into the revenue  
14       requirement. Here, however, the projected savings result from  
15       Company initiatives that go well beyond traditional utility  
16       efforts to manage costs and it will be very challenging for  
17       the Company to achieve these savings. The Company therefore  
18       proposes to give customers the benefit of 70% of these  
19       projected savings up front, and that the Company retain, for  
20       the term of this agreement, actual savings (which may be more  
21       or less than the projected savings), as an incentive to  
22       achieve the full projected amount, which will benefit  
23       customers in subsequent years.

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1 **VII. INCENTIVE RATEMAKING**

2 Q. Does the Company's gas rate filing include incentive  
3 ratemaking proposals?

4 A. Yes it does. The Company is proposing that the Commission  
5 continue and/or institute several forms of incentive  
6 ratemaking as part of a new rate plan for Con Edison gas  
7 service.

8 Q. What is the basis for these incentive ratemaking proposals?

9 A. As we have explained in this testimony, the Company is  
10 planning to implement a myriad of projects and programs  
11 designed to meet increasing and changing customer  
12 expectations; to respond to technological and other changes  
13 affecting the natural gas industry; to achieve higher levels  
14 of operational and administrative efficiencies; and to meet  
15 various challenges specific to the Company's service  
16 territory.

17 As part of its policy-making proceedings, in particular, the  
18 REV and related proceedings, and in establishing new rate  
19 plans in major rate case proceedings, the Commission has  
20 adopted incentive mechanisms for utility initiatives that are  
21 designed to encourage utility companies to pursue non-  
22 traditional means, or enhance and extend traditional means,  
23 for meeting or exceeding changing customer expectations, while

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1 maintaining and/or enhancing the safety, reliability and  
2 efficiency of utility service.

3 We believe this incentive ratemaking policy should be  
4 continued and applied to the implementation of the projects  
5 and programs that the Company has developed and/or is  
6 developing to complement and supplement its core activities  
7 designed to provide safe and adequate utility service at just  
8 and reasonable rates.

9 Q. What are the forms of incentive ratemaking that the Company is  
10 proposing?

11 A. Generally, the forms of incentive ratemaking that the Company  
12 is seeking in this proceeding are:

- 13 • positive incentives associated with achieving or exceeding  
14 various gas safety performance metrics, as discussed by the  
15 GIOSP;
- 16 • positive incentives associated with the residential service  
17 termination and uncollectible bills metric, as discussed by  
18 the Customer Operations Panel; and
- 19 • Earnings Adjustment Mechanisms ("EAMS"), as discussed by  
20 the CES Panel.

21 Each Panel presents the reason(s) for the proposed incentive  
22 and the details of the proposed mechanism(s).

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1 Q. Is the Company proposing to discontinue any positive incentive  
2 mechanisms that are currently in place?

3 A. Yes. Consistent with the changes to the Company's growth-  
4 related programs in light of challenges in meeting increased  
5 peak day demand and State policies aimed at reducing reliance  
6 on fossil fuels, as explained by the GIOSP in their testimony,  
7 the Company proposes to change the revenue decoupling  
8 mechanism from a Revenue Per Customer mechanism to a Revenue  
9 Per Class mechanism. This eliminates an incentive for the  
10 Company to add new firm gas customers.

11 The proposed Revenue Per Class mechanism, which is presented  
12 by the Company's Gas Rate Panel in their direct testimony, is  
13 similar to the revenue decoupling mechanism in effect for the  
14 Company's electric customers.

15 Q. Do you have any concluding remarks regarding the Company's  
16 incentive proposals?

17 A. Yes. We believe the proposed incentives and regulatory asset  
18 treatment discussed earlier in our testimony align customer,  
19 investor and other stakeholder interests while meeting State  
20 energy policy goals and better positions the Company to  
21 continue to be an industry leader in providing customers with  
22 safe, innovative and competitive gas energy solutions today  
23 and for future generations.

1 **VIII. MANAGEMENT AUDIT UPDATE**

2 Q. Please discuss the most recent Commission-initiated management  
3 and operations audit of the Company.

4 A. In December 2014, in Case 14-M-0001, the Commission commenced  
5 a comprehensive management and operations audit of Con Edison  
6 and O&R pursuant to Public Service Law §66(19). The  
7 Commission selected NorthStar Consulting Group ("NorthStar")  
8 to perform the audit. NorthStar released its Final Report on  
9 May 20, 2016. The Final Report contained 36 separate  
10 Recommendations for Con Edison.

11 Q. Is the Company implementing the Final Report's  
12 Recommendations?

13 A. Yes. The Con Edison Implementation Plan, which the Commission  
14 approved on October 13, 2016, contains a milestone schedule  
15 for the completion of each of the 36 Recommendations. In its  
16 latest update to the Implementation Plan, which the Company  
17 filed with the Commission on October 15, 2018, the Company  
18 explains that it has completed 33 of the 36 Recommendations  
19 and Staff has accepted and closed 30 of the 36  
20 Recommendations. As to the remaining three Recommendations,  
21 the update explains that the remaining three recommendations  
22 are "in progress."

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1 Q. What is the current status of the remaining three "in-  
2 progress" Recommendations?

3 A. The Company has completed two of the three Recommendations  
4 that were "in-progress" as of the October 15, 2018 update. In  
5 addition, Staff has accepted and closed two additional  
6 Recommendations. In total, the Company has completed 35 of 36  
7 Recommendations and Staff has accepted and closed 32 of 36  
8 Recommendations. As to the one remaining recommendation that  
9 remains "in-progress," which relates to the implementation of  
10 Gas Operations' work management process improvements, the  
11 Company remains on track with its plan; the target dates for  
12 completion milestones are in 2019 and 2020 and the Company is  
13 working towards completing the recommendation by these dates.

14 Q. Have there been any other Commission-initiated operations or  
15 management audits of the Company during the past several  
16 years?

17 A. Yes. The Commission initiated two state-wide operations and  
18 management audits in 2013.

19 Q. Please explain the status of these audits.

20 A. In August 2013, the Commission initiated Case 13-M-0314 to  
21 examine the accuracy of electric interruption, gas safety, and  
22 customer service data that is regularly reported to the  
23 Commission ("Utility Data Audit"). The Commission selected

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1 Overland Consulting to perform the audit. In April 2015,  
2 Overland Consulting issued a report recommending various  
3 actions to be undertaken by the State's electric and gas  
4 utilities. By letter from Staff's Director of the Office of  
5 Accounting, Audits and Finance dated March 1, 2018, Staff  
6 confirmed the completion of its implementation oversight of  
7 Con Edison's audit recommendations in Case 13-M-0314, stating  
8 that Con Edison has implemented all recommendations, based on  
9 Staff's review of the Company's July 17, 2017 Implementation  
10 Plan.

11 Q. Please describe the status of the second state-wide audit.

12 A. In Case 13-M-0449, the Commission selected the Liberty  
13 Consulting Group ("Liberty") to examine internal staffing  
14 levels and the use of contractors at major New York State  
15 utilities. Liberty's final report for that audit included 24  
16 recommendations for Con Edison. The Company filed an  
17 implementation plan on March 24, 2017, which the Commission  
18 approved on December 15, 2017.

19 In its latest update to the Implementation Plan, which was  
20 filed with the Commission on December 17, 2018, the Company  
21 explains that it has completed all 24 recommendations. A  
22 number of these recommendations are pending Staff review and  
23 closeout.



1           **IX. CLIMATE CHANGE VULNERABILITY STUDY STATUS REPORT**

2   Q.   Please provide an update on the Company's Climate Change  
3        Vulnerability Study.

4   A.   As a continuation of the Superstorm Sandy Storm Hardening  
5        Collaborative, we are working to complete a comprehensive  
6        Climate Change Vulnerability Study. As provided for in the  
7        current rate plan, Con Edison is required to complete this  
8        study by December 31 2019.

9        We retained a consultant, and we contracted with Columbia  
10       University's Lamont-Dougherty Earth Observatory for the  
11       climate science. The Working Group has met five times in  
12       total, twice in 2017 and three times in 2018. We will  
13       continue to convene the Working Group until we complete the  
14       Study, in order to share information and ideas with  
15       stakeholders.

16       In 2017, we developed the study work plan, established the  
17       climate variable set that will be used in the study, and held  
18       workshops with Company SMEs to identify appropriate subsets of  
19       the variables and identify high impact assets and processes  
20       that should be included.

21       As stated in the study's work plan, the Company will pursue  
22       three goals we reviewed with the Working Group:

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- 1       • Develop a shared understanding of new climate science and  
2       anticipated weather conditions.
- 3       • Assess the impact of climate change on Con Edison's  
4       infrastructure and complete a quantitative risk analysis  
5       that considers key uncertainties.
- 6       • Propose revisions to system and equipment design standards,  
7       if applicable, and create a risk mitigation plan.

8       In 2018, we completed study tasks related to Temperature,  
9       Humidity, Temperature Variable, and Load.

10       In 2019, we will complete study tasks relating to Sea Level  
11       Rise, Precipitation, Major Events, and Multiple Events. We  
12       will then review with the working group our resiliency  
13       options, including any potential recommendations, and issue  
14       the report.

15    Q.    Are there any projects or programs in this rate filing that  
16       are a result of the work done to date?

17    A.    Our findings from the study tasks completed thus far did not  
18       yield concerns of short-term significance that warranted the  
19       development of projects or programs for this rate filing.  
20       Nevertheless, as we work through the remaining study tasks and  
21       other assessments, we will consider whether any findings we  
22       obtain are significant enough to warrant including in our  
23       update filing an additional project(s) and/or program(s).

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1 Q. How do you plan to use the findings from the study?

2 A. The study will develop a suite of adaption options to address  
3 the vulnerabilities identified. We will consider potential  
4 synergies among the different adaption options to establish  
5 the best overall strategy. The Company then plans to evaluate  
6 and then implement changes to its planning processes, system  
7 and equipment design standards and operating procedures  
8 consistent with the adaptation strategy. As part of this  
9 effort, the Company will periodically review the potential  
10 impacts from climate change, including updating climate  
11 projections. Barring any significant issues that require  
12 immediate action, we feel we can most effectively and  
13 efficiently make use of the information provided by this study  
14 after it is complete.

15 Q. Does this conclude the Panel's testimony?

16 A. Yes.

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**I. INTRODUCTION**

1

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

4 A. Robert Muccilo, Scott Sanders, Edlyn Misquita, Wenqi Wang and Kyle Ryan.

5 Our business address is Consolidated Edison Company of New York, Inc. (“Con  
6 Edison,” the “Company” or “CECONY”), 4 Irving Place, New York, NY 10003.

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

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

11 **(Sanders)** I am the Vice President Financial Planning and Analysis.

12 **(Misquita)** I am the Assistant Controller responsible for the Regulatory  
13 Accounting & Policy, Accounts Payable, Payroll and Account Reconciliation  
14 sections.

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

17 **(Ryan)** I am the Department Manager of Regulatory Policy.

18 **Q. Please explain your educational background and work experience.**

19 A. **(Muccilo)** In 1978, I graduated from Jersey City State College with a Bachelor’s  
20 Degree in Accounting. I graduated from Fairleigh Dickinson University in May  
21 1983 with a Master’s Degree in Corporate Finance. I began my employment at  
22 Con Edison in June 1978 and, from that time until 1998, I worked in the General

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1 Accounts and Accounting Research and Procedures (“ARP”) sections of  
2 Corporate Accounting in increasing levels of responsibility up to and including  
3 Manager of ARP. In 1999, I was promoted to Assistant Controller, responsible  
4 for General Accounts and ARP. In 2002, I assumed the responsibilities for  
5 Financial Forecasting and Budgets and Electric Revenue and Volume Forecasting  
6 sections of Corporate Accounting, and in 2003 continuing through 2006, I  
7 assumed the additional responsibility of Regulatory Accounting and Regulatory  
8 Filings sections of Corporate Accounting. As part of a career developmental  
9 opportunity, in 2006 I assumed the position of General Manager, Stores  
10 Operations where I was responsible for operating and managing the central  
11 warehouse and distribution facility for electric, gas and steam materials. In April  
12 2008, I returned to Corporate Accounting to assume a special assignment as  
13 Assistant Controller and team leader for the Finance Transformation Project. The  
14 team was responsible for implementing process, people, and system changes  
15 designed to minimize financial reporting risk. I have also served on and led  
16 several corporate teams, including the establishment of the Consolidated Edison,  
17 Inc. holding company corporate structure and the Orange and Rockland (“O&R”)  
18 Merger Transition Team. I became Vice President and Controller in 2009.  
19 **(Sanders)** I hold a B.S. in Nuclear and Chemical Engineering from the  
20 University of California, Berkeley (1986), and an MBA from the University of  
21 Chicago (1996). I joined Con Edison in January 2010 as Vice President and  
22 Treasurer. I assumed my current position as Vice President Financial Planning



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1 and Analysis in 2016. I previously co-founded New Infrastructure Advisors in  
2 2009, a boutique financial advisory firm. Prior to New Infrastructure Advisors, I  
3 was employed at Bank of America where I was a Managing Director in the Power  
4 and Utilities group covering U.S. utilities. I previously covered U.S. utilities  
5 during my tenure at Citigroup and New Harbor Incorporated. My work with  
6 utilities also included work as a consultant to U.S. utilities at Deloitte Consulting.  
7 I began my career with the California Public Utilities Commission, working as a  
8 staff engineer on electric, gas, water and telecommunications rate matters and  
9 then as an advisor to Commissioner Patricia Eckert on electric and gas matters.  
10 During my twelve years in the financial services industry, as a senior investment  
11 banking professional, I regularly valued, or directed the valuation of utilities and  
12 utility assets employing discounted cash flow valuations that applied capital asset  
13 pricing model-derived market costs of equity.

14 **(Misquita)** I received a Bachelor's degree in Accounting and Audit from  
15 University of Bombay, India in 1992 and am a CPA. I joined Con Edison  
16 in 2001 in the Corporate Accounting department. In my current role as  
17 Assistant Controller, I have oversight of regulatory and accounting  
18 operations. My previous assignments include assistant controller of  
19 Financial Accounting and Reporting, business lead for the  
20 implementation of Oracle Finance and Supply Chain systems, assistant to  
21 the CEO, and department manager of Accounting Research and

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1 Procedures. Before joining Con Edison, I worked for seven years in the  
2 audit practice at Ernst & Young, India.

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

11 **(Ryan)** I graduated from the University of Wisconsin-Madison in 2006 after  
12 earning a Bachelor of Business Administration in Accounting and a Masters of  
13 Accountancy. I began my employment with Con Edison in 2012 as a Senior  
14 Accountant in the Accounting Research and Procedures section and was promoted  
15 to Department Manager of the section in 2014. I assumed my current position as  
16 Department Manager of Regulatory Filings in June 2017. Prior to joining Con  
17 Edison, I worked for Ernst & Young in Minneapolis, Minnesota from 2006 to  
18 2012, ultimately reaching the position of Audit Manager. I am a licensed CPA in  
19 New York and Minnesota.

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

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1 A. Yes. All members of the Accounting Panel have previously submitted testimony,  
2 some numerous times, before the Commission on behalf of CECONY and/or  
3 O&R in previous electric, gas and/or steam proceedings.

4 **II. PURPOSE OF TESTIMONY**

5 Q. Please summarize your testimony.

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

- 7 • An overview of the costs driving the need for electric and gas rate relief  
8 for the twelve months ending December 31, 2020 (the “Rate Year” or  
9 “RY1”),
- 10 • An overview of the Company’s efforts to mitigate the cost of providing  
11 electric and gas service, including through its Business Cost Optimization  
12 (“BCO”) Program and its proposal for a BCO shared savings incentive
- 13 • Historic financial statements and statistical data required by the  
14 Commission;
- 15 • The development of the Rate Year electric and gas revenue requirements;
- 16 • The effect of the proposed electric increase as allocated between the  
17 Monthly Adjustment Clause (“MAC”) and delivery service rates;
- 18 • The proposed overall rate of return and capital structure for the Rate Year;
- 19 • Sources and uses of funds and interest coverage ratios;
- 20 • The Company’s proposals related to certain deferral accounting and  
21 reconciliation mechanisms; and
- 22 • The Company’s forecasted financial information for the two annual

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1 periods beyond the Rate Year to provide a basis for settlement discussions  
2 regarding multi-year electric and gas rate plans.

3 **III. ORGANIZATION OF TESTIMONY**

4 Q. Please describe your testimony and how it is organized.

5 A. The Accounting Panel testimony covers the below-listed topics and exhibits. All  
6 of these exhibits were prepared under our supervision and direction, but rely on  
7 input from other Company witnesses. Certain projections will be updated based  
8 on the latest information available during the course of these proceedings.

| <b>Exhibit Title and Description</b>         | <b>Exh. No.</b> | <b>E, G*</b> |
|----------------------------------------------|-----------------|--------------|
| Historic Financial and Statistical Data      | AP-1            | E, G         |
| Rate Base                                    | AP-2            | E, G         |
| Operating Income/Revenue Requirement         | AP-3            | E, G         |
| Estimated Net Plant and Capital Expenditures | AP-4            | E, G         |
| Capital Structure/Cost of Capital            | AP-5            | E, G         |
| Allocation of Electric Rate Increase         | AP-6            | E            |
| Finance and Other White Papers               | AP-7            | E, G         |

9 \* The numbering convention for exhibits indicates whether the exhibits address  
10 electric or gas (E, G) service as follows: AP-E1, AP-E2, etc. for electric exhibits  
11 and AP-G1, AP-G2, etc. for gas exhibits. For ease of presentation, the exhibits  
12 are often referenced without the commodity designation. Please note that AP-6 is  
13 only applicable to electric service.

14 The Company is not proposing a multi-year rate plan for electric or gas in its  
15 filing. However, in addition to providing projections for the Rate Year, in order  
16 to facilitate the negotiation of multi-year electric and gas rate plans, the Company  
17 has included forecasted financial information for two annual periods beyond the

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1 Rate Year, *i.e.*, the twelve-month periods ending December 31, 2021 and  
2 December 31, 2022 (which we and other Company witnesses will refer to as  
3 “RY2” and “RY3,” respectively, for ease of reference).

4 **IV. THE NEED FOR RATE RELIEF**

5 **A. Costs Driving and Mitigating the Need for Rate Relief**

6 Q. When and in what cases were existing electric and gas rates set?

7 A. The Company’s existing electric rates were set by the Commission in Case 16-E-  
8 0060 under a three-year rate plan that began January 1, 2017 and extends through  
9 December 31, 2019.

10 The Company’s existing gas rates were set by the Commission in Case 16-G-0061  
11 under a three-year rate plan that began January 1, 2017 and extends through  
12 December 31, 2019.

13 Q. What amount of rate relief is the Company requesting in this proceeding?

14 A. For the Rate Year, the Company is requesting \$485 million of electric rate relief  
15 and \$210 million of gas rate relief.

16 Q. Please explain why the Company is requesting an increase in its rates for electric  
17 and gas service at this time.

18 A. The primary drivers for the requested electric service rate increase, as explained  
19 in greater detail below, are growth in rate base, higher financing costs, higher  
20 property taxes, higher operating expenses, amortization of net deferred credits/  
21 costs, and lower sales forecasts. These are mitigated by decreases in income taxes  
22 and anticipated savings as a result of the Company’s BCO Program. As explained

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1 in greater detail below, the primary drivers for the requested gas service rate  
 2 increase are growth in rate base, higher financing costs, higher property taxes, and  
 3 higher operating expenses. These are likewise mitigated by decreases in income  
 4 taxes and anticipated savings as a result of the Company’s BCO Program.  
 5 These various drivers are summarized in Table 1. Additional detail is set forth in  
 6 the AP-3 exhibits.

| <b>Table 1 (\$millions)</b>                         |                 |              |
|-----------------------------------------------------|-----------------|--------------|
| <b>Driver</b>                                       | <b>Electric</b> | <b>Gas</b>   |
| New infrastructure investment / Net plant additions | 271             | 147          |
| Higher ROE / Financing                              | 175             | 56           |
| Property and other taxes                            | 168             | 63           |
| Sales revenue change                                | 124             | (15)         |
| Amortization of net deferred credits/costs          | 242             | 64           |
| Operations and maintenance expenses                 | 43              | 41           |
| Depreciation changes                                | 23              | 9            |
| Other operating revenue                             | 16              | 6            |
| Income taxes and other items                        | (577)           | (161)        |
|                                                     |                 |              |
| <b>Total</b>                                        | <b>\$485</b>    | <b>\$210</b> |

All amounts are revenue requirement levels and represent changes relative to RY3 of the Company’s current rate plans

7 **1. Net Plant Additions**

8 Q. Please discuss the impact of net plant additions on the Company’s rate base.  
 9 A. The Company has a continuing statutory obligation to maintain safe and reliable  
 10 electric and gas systems. As discussed by the Company’s Electric Infrastructure  
 11 and Operations Panel (“EIOP”), the Company’s Gas Infrastructure, Operations

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1 and Supply Panel (“GIOSP”) and other Company witnesses, the projected level of  
2 spending reflects the investments determined to be necessary to install and replace  
3 infrastructure and manage risk, meet current customer needs, plan for future  
4 customer needs and enable the transition to a dynamic customer oriented clean  
5 energy system. The Company makes capital spending decisions following its  
6 extensive and rigorous analysis, including an optimization assessment that is  
7 guided by our long- and short-term planning processes and takes into account  
8 State and local policy objectives. As the witnesses explain, the Company’s  
9 strategy is to invest in infrastructure enhancements only when less expensive  
10 alternative solutions are not available to sustain existing reliability levels, provide  
11 for localized delivery capacity needs, provide for employee and public safety, and  
12 enable the clean energy transition.

13 The ongoing need for capital investment contributes to the increase in the carrying  
14 cost on rate base relative to current RY3 rate levels of approximately \$271 million  
15 for electric and \$147 million for gas, which includes additional depreciation  
16 expense of \$107 million for electric and \$54 million for gas on the higher plant  
17 investment at the Company’s currently-authorized depreciation rates.

18 **2. Financing, Depreciation and Property Taxes**

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

21 A. The overall effect of the change in financing costs amounts to \$175 million for  
22 electric and \$56 million for gas. The primary factor contributing to this increase

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1 is the proposed return on equity (“ROE”) of 9.75 percent (as compared to the  
2 current ROE of 9.0 percent). Other factors include increasing the equity ratio  
3 from 48.00 percent to 50.00 percent, an increase in the cost of debt from 4.74  
4 percent to 4.86 percent, and an increase in the customer deposit rate from 0.85  
5 percent to 2.45 percent.

6 Q. Why is the Company proposing an ROE of 9.75 percent in this rate filing?

7 A. As discussed in her direct testimony, Company witness Villadsen calculated a  
8 10.00 percent ROE as being appropriate for the Company. The Company is filing  
9 with the lower 9.75 percent ROE in order to facilitate the resolution of the issues  
10 in these proceedings.

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

12 A. The increases in depreciation expense are due primarily to updating for projected  
13 plant balances through the Rate Year and to a request for increased amortization  
14 levels of the accumulated depreciation reserve deficiency for electric and  
15 gas. The Company’s Depreciation Panel presents a study of the appropriateness  
16 of the depreciation rates currently authorized for use and makes certain findings.  
17 However, in order to facilitate the resolution of the issues in these proceedings,  
18 the Company is not proposing a change in depreciation rates in these cases. Had  
19 the Company reflected the rates found warranted in the Depreciation Studies and  
20 requested amortization of the reserve deficiency at levels supported by the  
21 Depreciation Studies, the rate relief request would have been approximately \$113  
22 million higher for electric and \$33 million higher for gas. By not proposing to



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1 change depreciation rates in this case, the Company should not be viewed as  
2 waiving its rights to seek recovery of the full reserve deficiencies or to increase  
3 depreciation rates in future rate filings. Moreover, should the Commission decide  
4 to shorten the amortization periods proposed by the Company (for the reserve  
5 deficiencies or for the recovery of any other costs, which the Company proposed  
6 to mitigate bill impacts to customers), and determine that more of such costs  
7 should be recovered in the Rate Year, the revenue requirements should be  
8 increased to reflect any such changes in recovery periods.

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

11 A. The total increase in taxes, other than income tax, is \$168 million for electric and  
12 \$63 million for gas. The \$168 million increase for electric is comprised of an  
13 increase in property tax of \$171 million, offset by a decrease in payroll and other  
14 taxes of \$3 million. The \$63 million increase for gas includes an increase in  
15 property tax of \$64 million, offset by a decrease in payroll taxes of \$1 million.

16 The increases in property taxes above the current rate allowances are attributable  
17 to higher projected property taxes in New York City (“NYC”), the County of  
18 Westchester and other upstate localities, as addressed in the testimony of the  
19 Company’s Property Tax Panel.

20 **3. Operation and Maintenance (“O&M”) Expenses**

21 Q. Please explain the increases in electric and gas O&M expenses that contribute to  
22 the need for rate relief.

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1 A. Increases in O&M expenses result from a variety of normalizations of Historic  
2 Year (*i.e.*, October 1, 2017 through September 30, 2018) costs and program  
3 changes described later in this testimony and in the testimony of various  
4 Company witnesses. Please note that the O&M drivers include deferred expenses  
5 that are being amortized, including Site Investigation and Remediation (“SIR”),  
6 Energy Efficiency (“EE”), Brooklyn Queens Demand Management Demand  
7 Response Program (“BQDM”) and Reforming the Energy Vision (“REV”) demonstration projects. In addition, the Company escalated Historic Year  
8 expenses using labor and non-labor escalation factors to arrive at Rate Year  
9 amounts, as described later in this testimony.  
10  
11 For electric, the \$43 million overall increase in O&M expense includes, in  
12 addition to general inflation and wage awards, funding of a number of operational  
13 enhancements, including maintenance of the Advanced Metering Infrastructure  
14 (“AMI”) systems and communications infrastructure and additional information  
15 technology (“IT”) support for Oracle systems, the Digital Customer Experience  
16 (“DCX”), cyber security, and enterprise data analytics. Increases also include  
17 recovery of EE program costs and the Company’s energy storage proposal. There  
18 are also increases related to employee benefits and interference. These increases  
19 are partially offset by certain reductions, most notably savings driven by the  
20 Company’s BCO Program, AMI implementation and decreases in customer  
21 uncollectibles and SIR expenditures.

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1 For gas, the \$41 million overall increase in O&M expense is mostly driven by a  
2 significant increase in the number of gas inspections that must be performed.  
3 This change for gas inspections is primarily due to a change in the Commission’s  
4 definition of a “gas service line” and is further described in the GIOSP testimony.  
5 AMI, labor, employee benefits and IT support are other major contributors to the  
6 increase in gas O&M costs. These increases are partially offset by certain  
7 reductions, most notably savings driven by the BCO Program, AMI  
8 implementation and decreases in customer uncollectibles and SIR expenditures.

9 **4. Income Taxes**

10 Q. Please discuss the \$574 million decrease to the electric revenue requirement and  
11 the \$161 million decrease to the gas revenue requirement related to income taxes.

12 A. The large decreases in the revenue requirements are primarily related to the  
13 reduction in the corporate tax rate from 35% to 21%, resulting from the Tax Cuts  
14 and Jobs Act of 2017 (“TCJA”). This change greatly reduced both current and  
15 deferred income taxes. Offsetting these reductions are the expiration of the  
16 amortization of the reduction in the State corporate tax rate from 7.1 percent to  
17 6.5 percent included in current rates.

18 **5. Amortization of Net Deferred Credits / Costs**

19 Q. Please explain the references in Table 1 to the amortization of net deferred credits  
20 and costs.

21 A. The Company has recorded deferred costs and deferred credits under its current  
22 rate plans and has made projections of further deferrals between the end of the

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1 Historic Year and the start of the Rate Year. The specific items are discussed in  
2 detail in later sections of this testimony

3 Q. What effect does the amortization of these net deferred credits have on the  
4 Company's request for rate relief?

5 A. The effect for electric and gas is summarized below:

| <b>Table 2 (\$ millions)</b>         |                 |            |
|--------------------------------------|-----------------|------------|
| <b>Amortization of Net Credits</b>   | <b>Electric</b> | <b>Gas</b> |
| Expiring net credits                 | 152             | 45         |
| New net debits                       | 90              | 19         |
| <b>Effect on revenue requirement</b> | <b>242</b>      | <b>64</b>  |

6 Electric: Excluding the deferred items relating to SIR, EE, BQDM and REV  
7 demonstration projects, which as discussed above are included in O&M, and the  
8 deferral of the TCJA related benefits, which as discussed above are shown as an  
9 income tax driver, the Company has deferred \$149 million of net customer debits  
10 through September 30, 2018 and is projecting this balance to increase to \$436  
11 million by December 31, 2019. The Company is proposing to collect the net  
12 debits from electric customers over five years rather than three years, as is being  
13 done in current rates, in order to moderate rate impacts in this case. The effect of  
14 amortizing these customer debits increases the Company's necessary rate relief by  
15 \$90 million. The biggest drivers of this \$90 million increase are \$50 million for  
16 recovery of MTA costs and \$32 million for property taxes. The net effect on the  
17 electric revenue requirement of removing the expiring customer debits and credits  
18 is a \$152 million increase to the amount of necessary rate relief. Thus, the total

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1 increase to the electric revenue requirement related to the amortization of deferred  
2 customer debits and credits is \$242 million.

3 Gas: Excluding the deferred items relating to SIR and EE, which as discussed  
4 above are included in O&M, the deferral of the TCJA related benefits, which as  
5 discussed above are shown as an income tax driver, and the Meadowlands Heater  
6 project, which is discussed separately in this section, the Company has deferred  
7 \$49 million of net customer credits through September 30, 2018 and is projecting  
8 this balance to be a net deferred debit of \$77 million by December 31, 2019. The  
9 Company is proposing to collect this customer debit from gas customers over five  
10 years rather than three years as is being done in current rates in order to moderate  
11 rate impacts in this case. The effect of amortizing the net \$77 million customer  
12 debit over five years increases the necessary rate relief by \$16 million. The  
13 Commission previously approved the amortization of the Meadowlands Heater  
14 project over 15 years. The Company proposes to collect the remaining balance of  
15 \$38 million over the remaining twelve years of the amortization period, or \$3  
16 million per year. Thus, the net effect on the gas revenue requirement of new  
17 customer debits and credits is a \$19 million increase to the amount of necessary  
18 rate relief. The biggest drivers of this \$19 million increase are \$8 million for  
19 property taxes and \$6 million for gas service line inspections and repairs. The net  
20 effect on the gas revenue requirement of removing the expiring customer debits  
21 and credits from the current gas rate plan is a \$45 million increase to the amount

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1 of necessary rate relief. Thus, the total increase to the gas revenue requirement  
2 related to the amortization of deferred customer debits and credits is \$64 million.

3 **6. Sales Revenue and Other Operating Revenues**

4 Q. Please explain the sales revenue effect on the revenue requirement shown in Table  
5 1 above.

6 A. With regard to electric, the Company is projecting lower sales volumes due to  
7 forecasted energy use reductions, as discussed in the Electric Forecasting Panel's  
8 testimony. The Company is projecting the need for \$124 million of additional  
9 revenue attributable to the projected reduction in electric usage, as compared to  
10 the level assumed in current rates.

11 With regard to gas sales revenues, the Company is projecting slightly higher sales  
12 due to an increase in forecasted natural gas usage, as discussed in the Gas  
13 Forecasting Panel testimony, which incorporates the forecasted impacts from the  
14 Company's temporary gas moratorium in Westchester. The Company is  
15 projecting the reduced need for \$15 million of additional revenue attributable to  
16 the projected increase in gas usage, as compared to the level assumed in current  
17 rates.

18 Q. Please address the impact of changes to Other Operating Revenues on the electric  
19 and gas revenue requirements.

20 A. Decreases to Other Operating Revenues from the amounts reflected in current  
21 rates serve to increase the revenue requirements by \$16 million for electric and \$6

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1 million for gas, respectively. For electric, the decrease is primarily driven by an  
2 \$8 million decrease in projected purchase of receivables (“POR”) discounts.  
3 For gas, the decrease is primarily driven by lower rental revenues due to the  
4 changes in the accounting for the New York Facilities agreement, discussed  
5 below.

6 **B. Business Cost Optimization**

7 Q. What is Business Cost Optimization?

8 A. Business cost optimization, referred to as “BCO,” is a Company-wide program  
9 that seeks to improve processes, functions, and tasks to reduce costs while  
10 upholding our core strategic imperatives of safety, operational excellence and  
11 customer experience.

12 The program has three main objectives: (1) identify ways to improve or re-  
13 engineer our work that results in reduced O&M costs; (2) develop a plan for and  
14 implement cost savings initiatives; and (3) build a long-term and sustainable  
15 process for achieving ongoing cost savings.

16 Q. Why is the Company undertaking BCO?

17 A. The BCO is one measure the Company is employing to advance our business to  
18 the benefit of our customers as we manage the changing industry landscape. New  
19 York utilities face an increased focus on customer costs and, in the case of  
20 electric, flat sales. At the same time, technology, data and analytics are giving our  
21 employees the ability to gain new insights and unlock value. These advances are  
22 transforming the way we do business –giving us the ability to enhance the safety

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1 of our systems, improve our customers’ experience, and work towards operational  
2 excellence while reducing costs.

3 Q. How is BCO different from managing costs as you have in the past?

4 A. In the same way we are transforming our business, we are transforming the way  
5 we manage costs. Con Edison has always sought to manage costs. With BCO,  
6 we are building a broader and deeper capability to take advantage of new digital  
7 technologies, and to apply consistent frameworks, techniques and approaches  
8 across our Company to improve our ability to manage costs. We are challenging  
9 organizations to think differently about improving the work we do, and by doing  
10 so, reduce costs. Our BCO Program is a step-change difference from “business as  
11 usual” for the Company in how we are looking at costs. First, it is utility-wide,  
12 and centrally managed. To drive the cost transformation, we have committed  
13 significant human resources toward the effort with our existing staff, establishing  
14 at least a dozen teams that represent all major organizations within the Company.  
15 In addition, we have established a centralized program office (“BCO Program  
16 Management Office”) to coordinate the teams, manage an oversight process to  
17 measure progress, track results and provide direct and facilitated support where  
18 required on initiatives. Second, we designed the BCO Program to our specific  
19 operations. That is, while the program is guided by high-level benchmarking  
20 (both utility and non-utility), it was primarily designed by critically evaluating  
21 and improving our current processes. These are internally generated solutions,  
22 although we draw on best practices from across industries.



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1 Q. Please describe the BCO Program to date.

2 A. At the end of 2017, the Company undertook a diagnostic review with a consultant  
3 at its own cost to identify improvements in the way we work and the associated  
4 costs savings. The diagnostic review was a broad, high-level process to evaluate  
5 the spending patterns of the Company’s business organizations by cost category,  
6 resource type and function. In this “diagnostic phase,” the Company used cost  
7 trend data and internal and external benchmarking to identify areas on which to  
8 focus for cost savings initiatives.

9 In 2018, the Company began to design and implement initiatives. Each initiative  
10 is managed by a team consisting of a business lead, other business unit members  
11 and a Finance department liaison. Each team is sponsored by a Vice President or  
12 Director. As discussed above, a central BCO Program Management Office team  
13 in the Finance organization tracks each initiative and provides support. Centrally  
14 managing the BCO Program increases visibility and accountability and allows for  
15 more transformative, cross functional changes in the Company compared to  
16 singularly-focused savings initiatives within a single organization.

17 As of the fourth quarter of 2018, the BCO Program Office included over 70  
18 initiatives across the Company’s various departments. For a summary of the  
19 major initiatives and a description of how the Company developed their  
20 associated cost savings, please see the direct testimony of the EIOP, GIOSP, IT,  
21 Shared Services, and Customer Operation Panels.

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1           The BCO effort is still in the early stages. Therefore, we expect to maintain the  
2           current level of resources and management structure in place for BCO for some  
3           time. Only after we are confident we have made sustainable changes to our  
4           processes will we consider decentralizing the effort and making it normal  
5           business practice.

6    Q.     What are the Company's BCO savings projections for RY1, RY2, and RY3?

7    A.     The Company projects it can achieve approximately \$59 million in savings in  
8           RY1, an additional \$34 million in savings in RY2 and an additional \$13 million in  
9           RY3 savings for electric and \$3 million in savings in RY1, an additional \$12  
10          million in savings in RY2 and an additional \$4 million in savings in RY3 for gas,  
11          net of the O&M and capital costs to achieve.

12   Q.     How does the Company reflect BCO savings in this rate filing?

13   A.     BCO savings for 2020, 2021, and 2022 are reflected in the Company's electric  
14          and gas program changes. Exhibits AP-E3 and G3 detail the cost-savings  
15          associated with the initiatives reflected in the program changes. Schedule 16 of  
16          the AP-3 exhibits identifies the organizations in which the savings are reflected  
17          and the panels wherein the savings are discussed. The Company also applied an  
18          adjustment for fringe benefit savings to any labor-related BCO program changes.  
19          The BCO O&M savings presented in these exhibits are net of O&M costs to  
20          achieve and net of the sharing mechanism proposed below.

21   Q.     What costs does the Company include in its BCO costs to achieve?

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1 A. BCO costs to achieve include both O&M and capital costs required to implement  
2 BCO initiatives. As stated above, the BCO O&M savings in Schedule 16 of the  
3 AP-3 exhibits are reflected net of the O&M costs to achieve. The capital costs to  
4 achieve are included in the company's overall capital expenditures and net plant  
5 model. Costs associated with the Company's BCO consultant are funded solely  
6 by shareholders and are not included in our costs to achieve.

7 Q. Is the Company including a one percent labor productivity adjustment its O&M  
8 projections in addition to the BCO savings?

9 A. No. We are including savings that are much greater than the traditional one  
10 percent labor productivity adjustment. The BCO savings in this rate filing will be  
11 approximately three times the savings level traditionally included. In developing  
12 its labor escalation rates in past base rate cases, the Company has included a one  
13 percent productivity adjustment as a proxy for future potential efficiencies. In the  
14 instant proceedings, as we have indicated, the Company has performed a thorough  
15 study and is implementing a comprehensive, centralized cost-savings program  
16 that has quantified cost savings. Instead of waiting to realize concrete savings  
17 from that program to credit customers, the Company is incorporating all  
18 anticipated savings into its proposal in this filing.

19 Q. You indicated that the Company is assuming additional business risk by  
20 incorporating BCO savings in its Program Changes. What is the source of that  
21 business risk?

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1 A. As discussed below, and addressed by other Panels, there are challenges to  
2 meeting the projected cost savings. By passing on the savings to customers  
3 despite those challenges, the Company assumes additional business risk. Our rate  
4 case proposal is designed to shield customers from the impacts of that risk by  
5 passing on the majority of anticipated savings regardless of whether those savings  
6 are actually achieved.

7 The primary uncertainty in achieving cost savings relates to labor costs. As seen  
8 in Exhibits AP-E3 and G3, Schedule 16, 44 percent and 26 percent of the net RY1  
9 BCO O&M cost savings for electric and gas, respectively, are tied to changes in  
10 how the Company organizes and deploys labor. The timing of when the  
11 associated savings will be realized is uncertain. There are several steps to  
12 implement any initiative, each of which could take longer or shorter than initially  
13 projected. For instance, where the Company is implementing a new technology,  
14 the software needs to be integrated with the Company's systems, protocols will  
15 have to be established by the groups who directly use or draw information from it,  
16 and employees will need to be trained on how to use its various functionalities. In  
17 addition, employees who are being re-assigned to other work need to be trained  
18 and transitioned prior to assuming their new positions. Any changes in the  
19 implementation timeline of this and other initiatives may affect the timing of cost  
20 savings and what is achievable in RY1-RY3.

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1 For additional detail on the challenges associated with various initiatives, please  
2 see the direct testimony of the EIOP, GIOSP, IT, Shared Services, and Customer  
3 Operation Panels.

4 Q. Is the Company proposing a BCO savings sharing mechanism?

5 A. Yes. The Company is the first utility in this State to implement on its own accord  
6 a utility cost savings programs of this magnitude. The Company's proposed  
7 incentive is justified because: (1) it provides the Company with the incentive to  
8 continually refresh the pipeline of potential initiatives as we identify further  
9 opportunities; and (2) it addresses some of the business risk associated with not  
10 achieving the aggressive level of savings reflected in the rate filing.

11 Q. What is the Company's proposed BCO savings sharing mechanism?

12 A. In order to determine the BCO savings sharing, the Company computed the net  
13 savings, i.e., gross savings reduced by O&M costs to achieve and a carrying  
14 charge on capital costs to achieve. The Company first proposes to pass back to  
15 customers an amount equivalent to the typical one percent labor productivity  
16 adjustment. The Company then proposes to share the remaining net savings 70  
17 percent to customers and 30 percent to the Company. By passing back to  
18 customers an amount equal to the one percent labor productivity adjustment, the  
19 Company preserves the full impact of the traditional adjustment for customers.  
20 The Company has built the savings sharing into its proposed O&M program  
21 changes. The cumulative annual BCO savings by rate year is as follows:

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| <b>BCO Cumulative Savings (\$ millions)</b>         | <b>RY1</b>  | <b>RY2</b>  | <b>RY3</b>  |
|-----------------------------------------------------|-------------|-------------|-------------|
| Gross BCO Savings                                   | \$110       | \$165       | \$186       |
| Less: O&M Costs to Achieve                          | (37)        | (44)        | (47)        |
| Subtotal: Net O&M Savings                           | 73          | 121         | 139         |
| Less: Carrying Charge on Capital Costs to Achieve   | (11)        | (13)        | (14)        |
| Net Savings Subject to Sharing                      | \$62        | \$108       | \$125       |
| <b>Customer Share</b>                               |             |             |             |
| Amount equivalent to 1% productivity                | 16          | 24          | 33          |
| 70% of remaining net savings                        | 33          | 59          | 66          |
| <b>Total Customer Share</b>                         | <b>\$49</b> | <b>\$83</b> | <b>\$99</b> |
| <b>Company Share – 30% of remaining net savings</b> | <b>\$13</b> | <b>\$25</b> | <b>\$26</b> |

1 Q. Why does the Company propose 30% as the shareholder incentive?

2 A. The Company proposes 30% because that is the Commission authorized sharing  
3 percentage for the implementation of non-wires solutions (“NWS”). We believe  
4 that the Commission’s justification for a 30% shareholder incentive applies to the  
5 Company’s implementation of the BCO initiative. The Commission stated in its  
6 order adopting the NWS 30% incentive:

7 incentive opportunities should be financially meaningful and  
8 structured such that they encourage enterprise-wide attention at the  
9 utility and spur strategic, portfolio-level approaches beyond narrow  
10 programs. Further, incentive opportunities should be  
11 commensurate with the level of financial risk borne by utility  
12 shareholders. The 30% sharing adopted here represents a  
13 financially meaningful incentive opportunity that should encourage  
14 Con Edison to pursue the innovative portfolio-level approach to  
15 implementing NWA projects, while producing significant net  
16 benefits to customers and reflecting the financial risk required of  
17 Con Edison shareholders.

18  
19 Case 15-E-0229, Order Approving Shareholder Incentives, at 3 (January 25,  
20 2017). Here, too, the 30% incentive will encourage “enterprise-wide attention”  
21 and “spur strategic, portfolio-level approaches beyond narrow programs.”

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1           Moreover, there is shareholder risk associated with the proposal, as we are  
2           “baking in” the BCO savings and there will be no after the fact true-up. In other  
3           words, customers are assured of the 70% share of BCO savings and the risk of not  
4           achieving the aggressive targets falls solely on the Company. As such, the  
5           Company’s proposed 30% incentive is fair to customers and investors and should  
6           be adopted as proposed.

7    Q.     Under the Company’s proposal, after the end of the rate period covered by this  
8           proceeding, will 100% of the achieved annual BCO savings accrue to customers?

9    A.     Yes.

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

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

12   A.     Yes.

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

15   A.     Yes.

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

18   A.     Yes. The required information is included in the AP-1 exhibits.

19           Exhibits AP-1, Schedules 1-10, consist of an index and supporting schedules (*i.e.*,  
20           ten for electric and nine for gas) containing financial data and the results of  
21           operations for the particular utility service. The balance sheets are shown as of  
22           December 31 for the years 2014 through 2017, and as of September 30, 2018, the

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1 end of the Historic Year. Details of the income statement accounts are shown for  
2 the calendar years 2015 through 2017, and the Historic Year. Exhibits AP-1,  
3 Schedules 1-10 are:

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

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

18 **VI. HISTORIC FEDERAL AND STATE INCOME TAXES (Exhibits AP-1,**  
19 **Schedule 11)**

20 Q. Have you included a presentation of federal and state income taxes for the  
21 Historic Year in your exhibits?



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1 A. Yes. The first part of Exhibits AP-1, Schedule 11, sets forth the calculation of  
2 federal income tax for electric and gas operations, including accruals, deferrals  
3 and amortizations of deferrals for the Historic Year. The second part of those  
4 exhibits show the calculation of New York State (“NYS”) income tax for electric  
5 and gas operations for the same twelve-month period.

6 **VII. HISTORIC BOOK COST OF UTILITY PLANT (Exhibits AP-1, Schedule 12)**

7 Q. Have you included a presentation of the historic book cost of utility plant in your  
8 exhibits?

9 A. Yes. Exhibits AP-1, Schedule 12, contain historic balances of the book cost of  
10 utility plant, by utility plant account, and the balances of construction work in  
11 progress (“CWIP”) for electric and gas as of the end of the Historic Year and as of  
12 the end of the preceding four calendar years taken directly from the books and  
13 records of the Company. The utility plant accounts are maintained in balance  
14 with the continuing property records, which show the original cost of the existing  
15 property classified in accordance with established continuing property record  
16 units.

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

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

21 A. Yes. Exhibits AP-1, Schedule 13, contain historic balances of the accumulated  
22 provision for depreciation as of the end of the Historic Year and as of the end of

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1 the preceding four calendar years. The amounts shown in Exhibits AP-1,  
2 Schedule 13, were taken from the books and records of the Company. We will  
3 address projected changes to the accumulated provision for depreciation below in  
4 this testimony.

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

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

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

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

11 A. The presentation approach is the same for the electric and gas rate base exhibits.  
12 There are a total of six pages in Exhibits AP-2. Page 1 summarizes the overall  
13 rate base calculation for the Historic Year and Rate Year. Page 2 shows the  
14 details of the forecasted net plant and non-interest bearing CWIP calculation, as  
15 shown on page 1, lines 1 to 11 for electric (lines 1 to 10 for gas). Page 3 provides  
16 the details of the working capital, unamortized premium & discount and customer  
17 advance construction figures, as shown on page 1, lines 12, 13 and 15 for electric  
18 (lines 11, 12, and 14 for gas). Page 4 provides the details of the projected  
19 deferred balances from reconciliation mechanisms contained in the current rate  
20 plan as shown on page 1, line 16 for electric (line 15 for gas). Page 5 shows the  
21 details of accumulated deferred federal and state tax balances, as shown on page  
22 1, lines 17 to 20 for electric (lines 16 to 19 for gas). Page 6 provides a detailed

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1 calculation of the Earning Base Capitalization Adjustment amount, as shown on  
2 page 1, line 22 for electric (line 21 for gas).

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

5 A. Yes. Unamortized Preferred Stock Expense on line 14 for electric (line 13 for  
6 gas), Pension/OPEB Reduction on line 23 (line 22 for gas), and Former  
7 Employee/Contractor Proceeding Rate Base Reduction on line 24 (line 23 for  
8 gas), are the remaining rate base items that are shown on page 1 of Exhibits AP-2.  
9 Unamortized Preferred Stock Expense reflects the unamortized preferred stock  
10 expense as additions to rate base. The Commission directed this rate base  
11 treatment in its Order on Rehearing in Case 27353.

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

15 Regarding the Former Employee/Contractor Proceeding Rate Base Reduction, the  
16 Company made this adjustment due to an April 2016 Commission Order  
17 regarding the Former Employees/Contractor proceeding in Cases 09-M-0114 and  
18 09-M-0243. Pursuant to the Joint Proposal and subsequent order in these cases,  
19 the Company agreed to, among other things, forgo earning any return after  
20 January 1, 2017 on certain capital expenditures and to limit the return on certain  
21 other capital expenditures after January 1, 2017 to the Company's embedded cost  
22 of long-term debt.

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1           **A. Net Plant Rate Base (Exhibits AP-2, page 2)**

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

4       A.     Page 2 of Exhibits AP-2 includes projected net plant and the portion of CWIP not  
5           subject to Allowance for Funds Used During Construction ("AFUDC"). Net plant  
6           includes utility plant in service, the allocated portion of common utility plant,  
7           plant held for future use, Oracle agreement payment liability and the accumulated  
8           provision for depreciation at current depreciation rates, including proposed  
9           recovery of reserve deficiencies. Rate Year plant and accumulated depreciation  
10          forecasts are based on capital budget models and a thirteen-point average  
11          methodology. A description on how the Company developed the forecasted  
12          amounts of these items for the Rate Year is included in Section XIII of this  
13          testimony.

14           **B. Detailed Development of Working Capital, Unamortized Premium &**  
15           **Discount, and Customer Advance Construction (Exhibits AP-2, page 3)**

16       Q.     Please explain the rate base component labeled "Working Capital" on page 1 of  
17           Exhibits AP-2.

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

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1                           **1. Materials and Supplies**

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

4    A.    As in many past Company rate cases, the Rate Year forecast of Materials and  
5           Supplies inventory generally represents the Historic Year amount escalated using  
6           the general escalation factor.

7           An exception with respect to gas, however, but also consistent with the practice in  
8           many past Company gas rate cases, is that we excluded from rate base the  
9           inventory balances of both gas stored underground and Liquefied Natural Gas in  
10          storage. As discussed later, we have also eliminated from sales revenues the  
11          effects of gas in storage (as well as other items) to reflect only pure base revenues  
12          on which the revenue requirement should be based. This elimination would  
13          match our adjustment to revenues.

14                           **2. Prepayments**

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

17   A.    The prepayment component of working capital rate base includes local property  
18          tax, computer maintenance and software support, insurance, Commission  
19          assessment, NYS GRT, rents and other items.

20   Q.    Please explain how you developed the Rate Year rate base amount for the  
21          Prepayment items.

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1 A. All prepayments except for the prepaid property taxes were projected at the  
2 Historic Year level and escalated by general inflation. Prepaid property taxes are  
3 forecasted to increase at the same rate as property taxes. In their direct testimony,  
4 the Property Tax Panel discusses the Company's property tax forecasts.

5 **3. Cash Working Capital**

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

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

16 For electric, we eliminated purchased power and fuel expenses, amortization of  
17 energy efficiency programs and energy efficiency surcharges, amortization of  
18 MGP/Superfund Site, interdepartmental rents, East River Repowering Project  
19 ("ERRP") Rent and uncollectible accounts expense.

20 For gas, we eliminated purchased gas expenses, interdepartmental rents,  
21 amortization of MGP/Superfund Site, energy efficiency surcharges, and  
22 uncollectible accounts expense for that purpose.

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1 The amounts for gas are the final cash working capital amounts, but there is an  
2 additional element of the cash working capital allowance for electric related to the  
3 fuel and purchased power expenses previously eliminated from the calculation.  
4 The cash working capital allowance related to fuel and purchased power is  
5 calculated based on a time lag between fuel costs included in customer bills and  
6 when payments are collected from customers, as customarily applied by the  
7 Commission. This additional element of the cash working capital allowance adds  
8 \$86.6 million to the cash working capital rate base for electric as shown on page 3  
9 of Exhibit AP-E2.

10 **4. Unamortized Premium & Discount and Customer Advance for**  
11 **Construction**

12 Q. Please explain the unamortized premium/discount and expense and customer  
13 advance for construction on page 3 of Exhibits AP-2.

14 A. The unamortized premium/discount and expense reflects the unamortized balance  
15 of debt discounts, premiums and expenses, as additions to rate base. Customer  
16 advance for construction represents the amount billed to customers and others for  
17 the construction necessary to provide utility service to their premises (rather than  
18 for general system service) and represent a reduction to rate base. The Historic  
19 Year levels of these items were carried forward to the Rate Year.

20 **C. Net Deferrals/Credits from Reconciliation Mechanism (Exhibits AP-2,**  
21 **page 4)**

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

23 A. Yes.

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

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

5 Line 49 (G), Underground Gas Storage – Noncurrent, represents the Company’s  
6 investment in the non-current portion of cushion gas stored underground. The  
7 Historic Year levels of underground gas storage were carried forward to the Rate  
8 Year.

9 Line 64 (E)/Line 48 (G), Unbilled Revenues, represents the unbilled revenue  
10 deferral that was established to allow the Company to recover a portion of the  
11 deferred World Trade Center (“WTC”) related costs. The electric amount  
12 included in rate base, \$91 million, was approved by the Commission as part of  
13 Case 08-E-0539. The amount included in gas rate base, \$44 million, was  
14 approved by the Commission in Case 06-G-1332.

15 Line 65 (E), Deferred Fuel - Net of Tax, is the average balance of deferred fuel,  
16 net of taxes. Deferred fuel is comprised of deferred Market Supply Charge  
17 (“MSC”)/MAC costs.

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

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



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1 A. The Company developed Accumulated Deferred Federal Income Taxes for plant-  
2 related items using data from its capital budget and tax depreciation models. The  
3 Company calculates the rate base impact for federal deferred income taxes by  
4 using a proration methodology that is required by the Internal Revenue Service  
5 for any revenue requirement calculation that employs a future test period. The  
6 Company developed non-plant related deferred taxes by escalating the historic  
7 balances.

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

10 A. The Company developed Accumulated Deferred State Income Taxes using data  
11 from the Company's capital budget and tax depreciation models. The forecasted  
12 rate year balance is based on 50% of beginning and 50% of ending forecasted  
13 balance.

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

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

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

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1 depreciation normalization exceeded the amortization of such amounts previously  
2 deferred.

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

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

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

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

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

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

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

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1 reflects the effects of the unbilled revenue change previously mentioned in this  
2 section.

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

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

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

11 A. The rate base over/under capitalization adjustment on Exhibits AP-2, page 6,  
12 reflects the required adjustment to rate base to make earnings base equal to  
13 capitalization. The Commission has required this EB/Cap Adjustment in past  
14 proceedings to synchronize rate base plus interest bearing items (together,  
15 “Earnings Base”) with the total capitalization employed in utility service. Line 53  
16 on Exhibits AP-2, page 6, shows the EB/Cap adjustment amount to each electric  
17 and gas rate base. The Company calculates the EB/Cap adjustment amount by  
18 taking the total capitalization amount on line 51, less the rate base balance on line  
19 29.

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

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

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1 A. Yes. Historic Year levels and Rate Year levels of revenues and expenses are  
2 presented in Exhibits AP-3.  
3 Each of Exhibits AP-3 contains extensive detail regarding elements or  
4 components of revenue and expense on which the Company's rate request is  
5 based. The first page of Exhibits AP-3 is an index of the 17 schedules included in  
6 the exhibits.

- 7 • Schedule 1 presents the major cost drivers of the proposed revenue  
8 requirement increase.
- 9 • Schedule 2 presents the summary of the proposed revenue requirement  
10 increase.
- 11 • Schedule 3 presents the total revenues at current rates used to develop the  
12 revenue requirement.
- 13 • Schedule 4 presents projected amortizations of deferred debits and credits.
- 14 • Schedule 5 presents projected other operating revenues.
- 15 • Schedule 6 shows projected O&M expenditures.
- 16 • Schedule 7.1 presents depreciation at current rates with no additional  
17 recovery of the reserve deficiency and Schedule 7.2 presents depreciation  
18 at current rates after increasing the annual recovery of the reserve  
19 deficiency.
- 20 • Schedule 8 presents projected taxes other than income taxes.
- 21 • Schedules 9 and 10 present projected state and federal income taxes.

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- 1           • Schedule 11 projects Rate Year interest expense for purposes of reflecting  
2           the interest deduction included in Schedules 9 and 10. The schedule  
3           applies the weighted cost of debt from the Company’s capitalization  
4           schedules to forecasted rate base inclusive of interest bearing CWIP in  
5           order to derive the projected interest deduction.
- 6           • Schedule 12 presents projected fund requirements and sources.
- 7           • Schedule 13 presents interest coverage ratios.
- 8           • Schedule 14 shows how the general escalation factor was derived.
- 9           • Schedule 15 presents underlying calculations supporting the labor  
10          escalator.
- 11          • Schedule 16 summarizes normalizations, program changes, and other Rate  
12          Year adjustments.
- 13          • Schedule 17 lists cost elements and other items that the Company expects  
14          to update during these proceedings, and the sponsoring witnesses. In  
15          addition, any adjustments identified during discovery will be updated as  
16          well.

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

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

21          A.     The Company’s Electric and Gas Forecasting Panels provided the sales revenue  
22          forecast for each commodity shown in Exhibits AP-3, Schedule 3. The

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1 methodology used to derive sales revenue forecasts is addressed in the direct  
2 testimony of those Company witnesses.

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

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

13 Q. Did the Company make modifications to the revenues to reflect current projected  
14 levels of low-income discounts?

15 A. The Company made an adjustment to Electric Sales Revenues of \$1.9 million to  
16 reduce the total amount of low-income discounts reflected in the electric revenue  
17 requirement from \$54.7 million to \$52.8 million. Similarly, the Company made  
18 an adjustment to Gas Sales Revenues of \$5.0 million to increase the total amount  
19 of low-income discounts reflected in the gas revenue requirement from \$10.9  
20 million to \$15.9 million. The updated low-income discount levels are consistent  
21 with the testimony of the Customer Operations Panel.

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

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

4       A.     These adjustments reflect the Company’s proposals for crediting or charging  
5           customers for a variety of deferred credits or deferred charges. The Company  
6           projects the balance of deferred charges at the beginning of the Rate Year by  
7           obtaining the deferral balances as of September 30, 2018 and projecting any  
8           additional deferrals and amortizations from October 2018 to December 2019. In  
9           the preliminary update, the Company will update this exhibit with the December  
10          31, 2018 deferral balances and revise its 2019 projections of deferrals and  
11          amortizations as appropriate.

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

14      A.     For electric, the result is a net credit to customers of \$19,502,000 in the Rate  
15          Year. For gas, the result is a net credit to customers of \$11,549,000 in the Rate  
16          Year.

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

19      A.     For most items, the Company proposes an amortization period of five years  
20          starting at the beginning of the Rate Year (*i.e.*, January 1, 2020). With regard to  
21          electric, the Company proposes the following exceptions to a five-year  
22          amortization period: for adjustments related to deferrals for REV Demonstration,

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1 BQDM, EE, Electric Vehicle, and System Peak Reduction programs, the  
2 Company reflects a ten-year recovery period consistent with the REV Demo  
3 Order and the BQDM Order. The BQDM and REV Demonstration programs  
4 were further adjusted to eight-year and nine-year recovery periods, respectively,  
5 to reflect the average remaining recovery period for the deferred charges. In  
6 addition, consistent with the Commission’s Order in Case 17-M-0815, the  
7 Company is proposing amortization of deferred credits related to the 2018  
8 benefits of federal tax reform over three years for electric and two years for gas  
9 (as gas has begun returning credits to customers in 2019). Finally, for gas, the  
10 Company is recovering costs of the Meadowlands Heaters Projects from  
11 customers over the remaining twelve years of the fifteen-year amortization period  
12 approved by the Commission in Case 16-G-0061.

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

15 A. Yes, the amounts shown on Schedule 4 of Exhibits AP-3 are based on projected  
16 deferred balances as of the start of the Rate Year.

17 Q. Are there any significant additional deferred credits or deferred charges that the  
18 Company anticipates may materialize over the course of this proceeding?

19 A. Yes; in particular, the Company is preparing to sell vacant property on North First  
20 Street in Brooklyn. The sites were previously used for oil storage until 1997. The  
21 Company has identified a buyer and anticipates that the net gain on the sale before  
22 income taxes would be approximately \$139 million. The Company plans to



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1 submit a Section 70 filing in February 2019 to provide additional details of the  
2 transaction, to determine any allocations between services as appropriate, and to  
3 propose an equitable sharing of the proceeds from the sale.

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

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

8 **1. Electric and Common Items**

9 **Line 1, AMI Customer Engagement:** (E, G) Reflects a refund over five years  
10 of AMI Customer Engagement under-spending during the current rate plans.

11 **Line 2, Carrying Charges (Net Plant Reconciliation):** (E, G) Reflects a  
12 recovery from electric customers and refunds to gas customers over five years of  
13 carrying charges on net plant reconciliations during the current rate plans.

14 **Line 3, Carrying Cost – SIR Deferred Balances:** (E, G ) Reflects refunds to  
15 electric customers and gas customers over five years of carrying charges accrued  
16 on the variation between the forecasted balance of deferred SIR costs reflected in  
17 rate base under the Company's current rate plans and the actual deferred balances.

18 **Line 4, Customer Cash Flow Benefits- Bonus Depreciation:** (E, G)  
19 Reflects a recovery for electric and refunds to gas customers over five years  
20 related to reconciliations of bonus depreciation.

21 **Line 5, Deferred Workers Compensation Recoveries:** (E, G)

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1 Reflects the recovery over a five-year period of residual deferred workers  
2 compensation costs accrued during the previous rate plans. From 2014-2016, the  
3 Company reconciled between expenses incurred and expenses reflected in rates  
4 due to changes to the fees assessed by the NYS Workers Compensation Board.

5 **Line 6, Energy Efficiency:** (E, G) Reflects the recovery from electric customers  
6 and gas customers over a ten-year period for Energy Efficiency Project  
7 expenditures. Note that in the current filing, the expenditures being recovered  
8 through base rates over ten years for both electric and gas includes the Company's  
9 annual ETIP funding, which in the Company's current rate plan is being  
10 recovered through surcharges. These numbers do not reflect modifications to the  
11 Company's EE program in response to the Commission's December order  
12 adopting accelerated EE targets in Case 18-M-0084. The Company's Customer  
13 Energy Solutions Panel discusses this order and may update its program and  
14 funding proposals in the Company's preliminary update. This item is presented  
15 within the O&M section of the revenue requirement.

16 **Line 7, Federal Tax Reform Transition Period:** (E, G) Reflects the refund to  
17 electric customers and gas customers for tax savings accrued between the  
18 effective date of the TCJA (*i.e.*, January 1, 2018) and the time that accrued  
19 savings begin to be passed back to customers, in accordance with the  
20 Commission's order in Case 17-M-0815. For electric customers, the net benefits  
21 realized in calendar year 2018 are to be passed back over three years beginning

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1 January 2020. For gas customers, the net benefits realized in calendar year 2018  
2 are to be passed back over three years beginning January 2019.

3 **Line 8, Former Employees/Contractor Proceeding:** (E, G) Reflects a refund  
4 over a five-year period of residual Former Employees/Contractor Proceeding in  
5 accordance with the Joint Proposal in Cases 09-M-0114 and 09-M-0243.

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

9 **Line 10, Interest Rate True-Up (Auction Rate/ LT Debt):** (E, G) Reflects the  
10 recovery from electric customers and gas customers over five years of variable  
11 rate debt interest cost reconciliations.

12 **Line 11, Interference:** (E, G) Reflects the recovery over a five-year period of  
13 electric and gas interference costs. The regulatory assets are comprised of  
14 recoveries related to the previous rate plans (Cases 13-E-0030 and 13-G-0031)  
15 and recoveries related to the current rate plans (Cases 16-E-0060 and 16-G-0061).

16 **Line 12, Management Variable Pay:** (E, G) Reflects the refund to electric  
17 customers and gas customers over a five-year period of the difference between the  
18 Company's actual expense for non-officer management variable pay and the  
19 targeted amounts in rates.

20 **Line 13, NYSIT Rate Change:** (E, G) Reflects a recovery from electric  
21 customers and refunds to gas customers over a five-year period due to the effect  
22 of a change in the NYS income tax rate.

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1       **Line 14, Pensions/OPEBs:** (E, G) Reflects a recovery from electric customers  
2       and refunds to gas customers over a five-year period of the pensions/OPEBs  
3       costs. The electric deferred pension and OPEB regulatory liability at September  
4       30, 2018 of \$41.6 million is projected to become a regulatory asset of \$28.3  
5       million by the start of the Rate Year. The gas deferred pension and OPEB  
6       regulatory liability at September 30, 2018 of \$ 20.8 million is projected to  
7       decrease to a regulatory liability of \$12.0 million by the start of the Rate Year.  
8       Deferral accounting for pension and OPEB costs is provided for by the  
9       Commission’s Statement of Policy and Order Concerning the Accounting and  
10      Ratemaking Treatment for Pensions and Postretirement Benefits Other Than  
11      Pensions issued September 7, 1993 in Case 91-M-0890.

12      **Line 15, Positive Incentive Revenue Adjustments: (E, G)** This item reflects the  
13      amounts to collect from customers as a result of financial incentives, achieved  
14      under the Company’s current electric and gas rate plans. Please note that the  
15      Company reflected one hundred percent of the incentives earned in 2017 and  
16      anticipated to be earned in 2018 as a deferral balance to be recovered from  
17      customers even though only a portion will be recognized in the financial  
18      statements prior to the end of the current rate term. The lag in financial statement  
19      recognition is due to the alternative revenue program guidance within Accounting  
20      Standards Codification (“ASC”) 980, Regulated Operations. The Company’s  
21      proposal for recovery of future earnings adjustment mechanisms (“EAMs”) and

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1 positive and negative revenue adjustments is discussed within Section XVIII.A of  
2 this testimony.

3 **Line 16, Prop Tax Refund Town:** (E, G) Reflects a refund over a five-year  
4 period of the residual balance at September 30, 2018 for deferred property tax  
5 refunds.

6 **Line 17, Property Tax Deferrals:** (E, G) Reflects a recovery from electric  
7 customers and gas customers over five years of the amount of Property Tax  
8 expense in excess of the projected expense incurred as determined by applying the  
9 property tax deferral mechanism under the current rate plans.

10 **Line 18, Sale of Property – Gain on 708 1<sup>st</sup> Ave – insurance proceeds:** (E, G)  
11 The Company received an insurance refund based on a policy that was purchased  
12 in conjunction with the sale of a property on 708 1<sup>st</sup> Ave. The amount reflects the  
13 pass-back to electric customers and gas customers over five years for the gain.

14 **Line 19, SIR net of Shared Earnings:** (E, G) Reflects the recovery from electric  
15 customers and gas customers over five years for SIR Expenditures including  
16 MGP, Superfund, Appendix B, Astoria, Underground Storage Tank, and Other  
17 remediation sites. The amounts presented in this amortization reflect both the  
18 amortization of the projected deferral balance in the account as of December 2019  
19 (inclusive of any shared earnings deferrals recorded prior to September 2018), as  
20 well as amortization of projected spending during the Rate Year. Note that this  
21 amount is presented within the O&M section of the revenue requirement.

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1       **Line 20, WTC Incident System Restoration Interest Accrued:** (E, G) Reflects  
2       the recovery from electric customers and the refund to gas customers over five  
3       years for interest accrued on WTC Incident System Restoration costs.

4       **Line 21, Brooklyn Queens Demand Management Program (“BQDM”):** (E)  
5       Reflects the recovery from electric customers over an eight-year period for  
6       BQDM. The eight-year recovery reflects the average remaining recovery period  
7       for the deferred charges inclusive of new charges projected during the Rate Year.  
8       The Company estimates that it will have \$48 million in unrecovered expenditures  
9       by the beginning of the Rate Year. Consistent with the BQDM Order, the cost  
10      recovery through the MAC and the New York Power Authority (“NYPA”)  
11      surcharge ceased with the implementation of new rates on January 1, 2017, and  
12      recovery will continue through base rates. Note that this amount is presented  
13      within the O&M section of the revenue requirement.

14      **Line 22, BQDM & REV Demo Carrying Charge Deferral:** (E) Reflects  
15      forecasted refunds to electric customers over five years of carrying charges on  
16      BQDM & REV Demonstration project costs that under-run the rate base target  
17      during the current rate plans.

18      **Line 23, Deferral of NYS Brownfield Credit:** (E) Reflects refunds to electric  
19      customers over five years of tax benefits from Brownfield environmental tax  
20      credits.

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1       **Line 24, DSM Liquidated:** (E) Reflects refunds to electric customers over five  
2 years of the terminated Demand Side Management (“DSM”) contract liquidation  
3 payments received by CECONY and associated accrued interest.

4       **Line 25, Electric Service Reliability Rate Adjustment (CAIDI/ SAIFI):** (E)  
5 Reflects a recovery over a five-year period of residual balance at September 30,  
6 2018.

7       **Line 26, Electric Vehicle:** (E) Reflects the recovery from electric customers over  
8 a ten-year period for Electric Vehicle Projects. Pursuant to the Commission’s rate  
9 order in Case 16-E-0060, electric rates are designed for the Company to recover  
10 the costs of the equipment portion of the EV Program over ten years, including  
11 the overall pre-tax rate of return on such costs. Therefore, the revenue  
12 requirement reflects recovery of these costs over ten years through base rates.  
13 Note that this amount is presented within the O&M section of the revenue  
14 requirement.

15       **Line 27, Electric Vehicle Rate Incentive Expense True Up:** (E) Reflects  
16 refunds of projected underspend on Electric Vehicles Rate Incentive Expense to  
17 electric customers over five years.

18       **Line 28, Interest on Headroom Capacity:** (E) Reflects refunds of the residual  
19 regulatory liability balance of the Headroom Capacity Refund. The Company  
20 received a payment from Bayonne Energy Center for its use of headroom related  
21 to the East River upgrades, which it has been refunding to customers in its current

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1 electric rate plan. The remaining balance, including interest, is being refunded to  
2 customers over five years.

3 **Line 29, MTA work:** (E) Reflects the recovery from electric customers over a  
4 five-year period for Commission ordered work on the MTA system. As discussed  
5 in more detail later in this testimony and in the EIOP, pursuant to the  
6 Commission’s November 10, 2017 Order in Case 17-E-0428, the Company was  
7 required to take certain steps to safeguard and maintain adequate utility service to  
8 the MTA Subway System. The electric regulatory asset at September 30, 2018 of  
9 \$189.2 million is projected to grow to \$243.4 million by the start of the Rate  
10 Year, inclusive of interest on incurred costs.

11 **Line 30, Property Tax Settlement - 74th Street (86% customer portion):** (E)  
12 Reflects the refund to electric customers over five years of property tax refunds  
13 received in connection with the NYC Settlement on 74th Street Steam Facility.

14 **Line 31, Property Tax Settlement - 59th Street (86% customer portion):** (E)  
15 Reflects the refund to electric customers over five years of property tax refunds in  
16 connection with the NYC Settlement on 59th Street Steam Facility.

17 **Line 32, Rate Case EE and DM Programs Carrying Charge Deferral:** (E)  
18 Reflects refunds to electric customers over five years of carrying charges on EE  
19 and System Peak Reduction project costs that under-run the rate base target  
20 during the current rate plans.

21 **Line 33, REV Demonstration Projects:** (E) Reflects the recovery from electric  
22 customers over a nine-year period for REV Demonstration Projects. The



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1 Commission's December 17, 2015 Order in Case 15-E-0229 directed the  
2 Company to recover REV Demonstration costs in a manner similar to its recovery  
3 of BQDM costs (*i.e.*, recovery over ten years). The nine-year recovery reflects  
4 the average remaining recovery period for the deferred charges inclusive of new  
5 charges projected during the Rate Year. Note that this amount is presented within  
6 the O&M section of the revenue requirement.

7 **Line 34, Gain on Sale of Kent Ave:** (E) Pursuant to the Commission's  
8 September 14, 2018 Order in Case 17-M-0755, the Company is deferring a  
9 majority of the gain on the sale of the Company's Kent Avenue property for the  
10 benefit of electric customers. This amortization reflects refunding the customers'  
11 share of the gain to electric customers over five years.

12 **Line 35, Sale of Property Liability:** (E) Reflects a refund over a five-year period  
13 of residual regulatory liability on sales of properties.

14 **Line 36, Sale of Property - Verplanck Quarry:** (E) Reflects a refund to electric  
15 customers over five years of the customers' share of the gain on the sale of the  
16 Company's Verplanck Quarry property.

17 **Line 37, Sale of Property - Windmill Road - North Castle:** (E) Reflects the  
18 refund to electric customers over five years of the customers' share of the residual  
19 gain on the sale of the Company's Windmill Road - North Castle property.

20 **Line 38, Smart Grid Demonstration Grant:** (E) Reflects the recovery from  
21 electric customers over a five-year period of the residual deferred Smart Grid  
22 Demonstration Grant costs in excess of the amounts recovered in rates.

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1       **Line 39, System Peak Reduction:** (E) Reflects the recovery from electric  
2 customers over a ten-year period for System Peak Reduction Projects. Pursuant  
3 to the Commission’s rate order in Case 16-E-0060, electric rates are designed for  
4 the Company to recover the costs of the system peak reduction projects over ten  
5 years, including the overall pre-tax rate of return on such costs. Therefore, the  
6 revenue requirement reflects recovery of these costs over ten years through base  
7 rates. Note that this amount is presented within the O&M section of the revenue  
8 requirement.

9       **Line 40, Verizon Joint Use Settlement:** (E) Reflects a recovery over a five-year  
10 period of the residual regulatory asset balance related to the Verizon Joint Use  
11 Settlement.

12                               **2. Additional Gas Only Items**

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

15    A.    The items are as follows:

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

18       **Line 22, Gas Peak Demand Reduction Collaborative:** (G) Reflects a recovery  
19 over a five-year period of the residual regulatory asset balance related to this item.

20       **Line 23, Gas Service Line:** (G) Reflects the recovery from gas customers over a  
21 five-year period for costs deferred for incremental inspection and repair work  
22 incurred as a result of the change in the definition of “Gas Service Line.” The gas

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1 regulatory asset at September 30, 2018 of \$9.3 million is projected to grow to  
2 \$27.4 million by the start of the Rate Year.

3 **Line 24, Inside Gas Meters:** (G) Reflects the recovery from gas customers over a  
4 five-year period for incremental costs incurred during the current rate plan to  
5 relocate and install gas meters that are located inside a customer’s premises  
6 outside when performing any planned service line replacements, new service  
7 installations, or under other circumstances that offer the customer and the  
8 Company the opportunity to relocate meters outside.

9 **Line 25, Interest on Deferred POR:** (G) Reflects a recovery over a five-year  
10 period of residual regulatory asset balance for the interest on deferred POR  
11 program costs.

12 **Line 26, Meadowlands Heaters:** (G) Reflects the recovery from gas customers  
13 over a twelve-year period the remaining balance for Meadowlands Heaters  
14 Projects. Pursuant to the Commission’s rate order in Case16-G-0061, the  
15 Company is required to defer the cost as a regulatory asset and recover the cost  
16 over the 15-year period that began January 1, 2017.

17 **Line 27, Negative Revenue Adjustments:** (G) Reflects the refund to gas  
18 customers over a five-year period for any negative revenue adjustments incurred  
19 in the current rate plan. See Section XVIII.A of this testimony for the Company’s  
20 proposal for changing the mechanism by which the Company would credit  
21 customers for any negative revenue adjustments in the Rate Year.

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1       **Line 28, Oil to Gas Conversion:** (G) Reflects a recovery from gas customers  
2       over a five-year period of residual regulatory asset balance from certain oil to gas  
3       conversions that are deferred pursuant to the previous gas rate plan.

4       **Line 29, Penalties on Off-Peak/ Interruptible Customers:** (G) Reflects the  
5       refund to gas customers over five years of penalties assessed to off-peak and  
6       interruptible customers for not switching to alternative fuel sources when  
7       required.

8       **Line 30, Pipeline Integrity:** (G) Reflects the refund to gas customers over five  
9       years related to the annual reconciliation of KeySpan pipeline integrity costs  
10      allocable to the Company pursuant to the New York Facilities Agreement.

11      **Line 31, R and D Recon:** (G) Reflects the recovery from gas customers over a  
12      five-year period for the reconciliation of Gas Research and Development  
13      (“R&D”) costs.

14      **Line 32, Unauthorized Use Charge- Divested Stations:** (G) reflects the refund  
15      to gas customers over five years of revenues it received related to the  
16      unauthorized use of gas at divested stations.

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

18      Q.    Is the Accounting Panel presenting data on Other Operating Revenues of the  
19      Company?

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

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

3 A. Other Operating Revenues include revenue collected by the Company from  
4 customers or third parties such as late payment charges and facility rents.  
5 Increases in such revenues serve to reduce the Company's base rate revenue  
6 requirement and decreases in such revenues serve to increase the Company's base  
7 revenue requirement.

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

10 A. For electric, the Historic Year level of \$787 million is forecast to decrease by  
11 \$576 million, for a Rate Year level of \$211 million.

12 For gas, the Historic Year level of \$197 million is forecast to decrease by \$163  
13 million, for a Rate Year level of \$33 million.

14 The line items included in these totals, and their corresponding figures, are  
15 specified on Exhibits AP-3, Schedule 5,

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

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

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

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

4    A.    The items are as follows:

5            **Line 1, Miscellaneous Service Revenues:** (E, G) This represents the Company’s  
6            forecast of various charges to customers resulting from miscellaneous tariff  
7            charges. The charges are for “no access,” meter recovery, meter reconnection,  
8            collection charges for field calls and others. The Rate Year forecast is the average  
9            of these revenues for the prior three years (*i.e.*, October 1, 2015 through  
10           September 30, 2018).

11           **Line 2, Transmission of Energy:** (E) This represents revenues from the  
12           transmission of energy under bundled “grandfathered” firm transmission  
13           agreements with NYPA and LIPA. The forecast remains at the current level, as  
14           approved in the Company’s 2016 electric rate case.

15           **Line 3, Transmission Service Charges (“TSC”):** (E) This represents daily  
16           transmission wheeling transactions scheduled through the NYISO. The Rate Year  
17           forecast reflects the current level that was approved in the Company’s 2016  
18           electric rate case.

19           **Line 4, Maintenance of Interconnection Facilities:** (E) This reflects a projection  
20           for the net reimbursement of certain expenses the Company incurs for  
21           interconnecting customers to the Con Edison system. The Rate Year forecast  
22           reflects a small increase in carrying charges from customers.

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1       **Line 5, Excess Distribution Facilities:** (E) This represents tariff payments from  
2 customers for distribution facilities provided by the Company in excess of those  
3 normally provided. The Rate Year forecast is the average of these revenues for  
4 the prior three years (*i.e.*, October 1, 2015 through September 30, 2018).

5       **Line 6, Late Payment Charges:** (E, G- Line 4) This includes revenues from  
6 residential and non-residential customers. The Rate Year forecast is based on the  
7 Historic Year ratio of late payment charges to sales revenues. The Company  
8 applied that factor to the Rate Year sales revenue forecast to arrive at late  
9 payment charges.

10       **Line 7, NYSERDA On-Bill Recovery Financing Program:** (E) When  
11 homeowners obtain a loan from the New York State Energy Research and  
12 Development Authority (“NYSERDA”), they can repay the loan through their  
13 utility bill by using the on-bill recovery financing program. The Company then  
14 remits the money to NYSERDA. NYSERDA pays the Company a one-time fee  
15 of \$100 for each loan and a fee of one percent of the amount of each loan to  
16 defray costs directly associated with implementing the program. The Rate Year  
17 forecast is the average of these revenues for the prior three years (*i.e.*, October 1,  
18 2015 through September 30, 2018).

19       **Line 8, Revenues From The Learning Center:** (E, G- Line 5) These revenues  
20 result from providing training and conference services to outside parties. The  
21 Rate Year forecast is the average of these revenues for the prior three years (*i.e.*,  
22 October 1, 2015 through September 30, 2018).

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1       **Line 9, Facilities Fees – NRG:** (E) This line item represents fees NRG pays for  
2       its use of Company’s equipment. There will not be a forecast for the Rate Year  
3       since such agreement with NRG ended in February 2015. Reversal of payments  
4       received afterwards were recorded in December 2017.

5       **Line 10, Proceeds from Sales of TCCs:** (E) This represents projected auction  
6       proceeds from the sale of Transmission Congestion Contracts (“TCC”). The Rate  
7       Year forecast is based on the current level that was approved by the Commission  
8       in the Company’s 2016 electric rate case. Variances between the actual amount  
9       of revenues achieved and the levels included in rates are surcharged or passed  
10      back to customers through an existing tariff mechanism in the MAC.

11      **Line 11, POR Discount:** (E, G-Line 6) This represents the discount on  
12      receivables purchased by the Company from energy services companies  
13      (“ESCOs”). The Rate Year forecast reflects the current Historic Year level.

14      **Line 12, Substation Operation Services** (E) These are revenues associated with  
15      work done for third parties. The Rate Year forecast is the average of these  
16      revenues for the prior three years (*i.e.*, October 1, 2015 through September 30,  
17      2018).

18      Please note that the Company performs accommodation billings pursuant to  
19      General Rule 17.2 of the Company’s electric tariff based on the elements of cost  
20      identified in General Rule 17.3. The Electric Rate Panel has updated a number of  
21      tariffs that outline the overhead rates currently applied to accommodation billings.  
22      If the updated overhead calculations and associated tariff are approved by the



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1 Commission, the Company would reflect these updates effective at the start of the  
2 Rate Year.

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

5 A. General Rule 17.3 of the Company's electric tariff lists the elements of cost  
6 charged for special services performed by the Company pursuant to General Rule  
7 17.2.

8 The Company is modifying the percentages to be applied to certain cost elements  
9 based on the average of work performed for the 12 months ended 2016, the 12  
10 months ended 2017 and the 8 months ended August 2018. The stores handling  
11 rate will increase from 8.5 percent to 11 percent; the overhead rate for Electric  
12 Engineering and Administrative and General ("A&G") will decrease from 16  
13 percent to 15 percent; the overhead rate for A&G only will decrease from 2  
14 percent to 1 percent; and when Construction Management Oversight ("CMO") is  
15 required, the overhead rate for CMO, Electric Engineering and A&G will  
16 decrease from 43 percent to 19 percent.

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

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

21 A. General Information IV. 2 of the Company's gas tariff lists the elements of cost  
22 charged for special services performed by the Company.

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1 The Company is modifying the percentages to be applied to certain cost elements  
2 based on the average of work performed for the 12 months ended 2016, the 12  
3 months ended 2017, and the 8 months ended August 2018. The stores handling  
4 rate will increase from 8.5 percent to 11 percent; the overhead rate for Gas  
5 Engineering and A&G will decrease from 11 percent to 7 percent; the overhead  
6 rate for A&G only will decrease from 2 percent to 1 percent; and when CMO  
7 oversight is required, the overhead rate for CMO, Gas Engineering and A&G will  
8 decrease from 22 percent to 13 percent.

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

11 **Line 13, Net Unbilled Revenues:** (E, G-Line 7) This item represents the change  
12 in the unbilled revenue level recorded on the Company's books and records  
13 during the 12 months ended September 30, 2018. The accounting for unbilled  
14 revenues has no impact on the revenue requirement.

15 **Line 14, Reconnection Fee:** (E, G- Line 2) This represents reconnection fees  
16 applied to customers who require service restoration. The Rate Year forecast  
17 reflects the Company's proposal to eliminate reconnection fees for electric  
18 customers with AMI meters, as described in the testimony of the Customer  
19 Operations Panel.

20 **Line 15, Reconnection Fee Waiver:** (E, G- Line 3) This line represents waiver of  
21 reconnection fees for low income customers who require service restoration. The

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1 Rate Year amount represents targets developed by Customer Operations. Refer to  
2 Customer Operations Panel’s testimony for discussion of such targets.

3 **Line 16, Miscellaneous:** (E, G- Line 9) This line includes various small items.  
4 The Rate Year forecast is based on the Historic Year level.

5 **Line 17, Rent from Electric Property:** (E) This represents amounts billed by the  
6 Company to third parties for their use of Company property such as poles,  
7 easements, and transmission and distribution facilities. The forecast of revenue  
8 reflects an analysis of the terms of the Company’s rental agreements.

9 **Line 18, Interdepartmental Rents:** (E, G-Line 10) This represents carrying  
10 charges billed to one department of the Company for its use of facilities by  
11 another department of the Company. Joint use facilities include the head house at  
12 Hell Gate Station (E, G), facilities at the East River station (electric and steam)  
13 and the Hudson Avenue Tunnel (electric and steam). Carrying charges include  
14 components of rate of return on net plant investment, depreciation, and taxes.  
15 Changes in revenues for one department are offset by changes in  
16 interdepartmental rent expense for other departments.

17 **Note for Following Line Items:** Lines 19 through 25, and line 43 are offset in  
18 other places on the income statement, such as sales revenues or included in the  
19 MSC / MAC. Lines 26 through 40 are deferrals/reconciliations. Unless otherwise  
20 noted, no activity is projected for these items for the Rate Year.

21 **Line 19, RDM Reconciliation:** (E, G-Line 23) This represents the accounting  
22 adjustments recorded by the Company to implement the Revenue Decoupling

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1 Mechanism (“RDM”) in place under its current electric and gas rate plans. It  
2 relates to the deferral of the variation between the actual delivery revenues billed  
3 and the established target level.

4 **Line 20, Indian Point Energy Center Programs:** (E) This represents the  
5 carrying cost on the deferred expenditures related to the Indian Point Energy  
6 Center programs. This cost is recovered through the MAC.

7 **Line 21, NEIL Dividend:** (E) This item reflects the Nuclear Electric Insurance  
8 Limited (“NEIL”) dividend received by the Company. This item is refunded to  
9 customers through the MAC.

10 **Line 22, MFC – Lost Supply Revenues:** (E) This represents the variation  
11 between the level of Merchant Function Charge (“MFC”) supply revenues  
12 collected from full service customers and the actual amounts received during the  
13 Historic Year. The variation is the result of customers switching to ESCOs, who  
14 provide energy to those customers.

15 **Line 23, Hedging Program Interest:** (E, G- Line 19) This line reflects Historic  
16 Year reclassification of interest assessed on funds advanced for the program to  
17 interest income.

18 **Line 24, ESCO/Marketers – Bill Charges:** (E, G- Line 20) These are billing and  
19 payment processing charges the Company collects from ESCOs for consolidated  
20 billing services. These revenues were excluded from the Rate Year forecast of  
21 Other Operating Revenues and are included in Sales Revenue.

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1       **Line 25, Sale of Fuel Oil:** (E) This line represents losses associated with the sale  
2       of fuel oil that are recovered through the MAC.

3       **Line 26, Property Tax Reconciliation:** (E, G- Line 36) This represents the  
4       deferral of property tax expense over-runs as compared to the target levels  
5       reflected in rates. The amortization or recovery of the forecast deferred balance at  
6       December 31, 2019 is shown in Schedule 4 of Exhibits AP-3.

7       **Line 27, Interest Rate True-Up:** (E, G- Line 40) This represents the net  
8       variation between the cost of variable rate long-term debt reflected in rates and  
9       the Company's actual cost during the Historic Year. The interest rates for  
10      variable rate long-term debt will be reset in this case and, as a result, this variation  
11      is assumed to be zero in the Rate Year.

12      **Line 28, Net Plant Carrying Charges:** (E, G-Line 38) This represents amounts  
13      deferred for credit to customers resulting from net additions to utility plant being  
14      less than reflected in rates.

15      **Line 29, Customer Cash Flow Benefits – Bonus Depreciation:** (E, G-Line 35)  
16      This item includes the carrying charges the Company has deferred for the benefit  
17      of customers resulting from cash flow benefits received from the change in tax  
18      depreciation rates referred to as Bonus Depreciation.

19      **Line 30, Amortization Various Deferred Costs:** (E, G-Line 34) This reflects the  
20      amortization of various deferred costs that were amortized under the current rate  
21      plan.

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1       **Line 31, Management Variable Pay:** (E, G-Line 41) This item represents  
2 revenues deferred under the Management Variable Pay reconciliation mechanism  
3 included in the current rate plans.

4       **Line 32, Accounting Reserve:** (E, G-Line 37): This item represents reserves set  
5 up by the Company for various purposes, including shared earnings accruals.

6       **Line 33, 18-a Working Capital Reconciliation:** (E) This item represents an  
7 under-collection of the 18-a regulatory assessment working capital target.

8       **Line 34, ERRP Major Maintenance:** (E) The Company's current electric rate  
9 plan reflects \$10.704 million for the ERRP maintenance costs per year. This item  
10 represents accounting entries related to the reconciliation of actual ERRP  
11 maintenance costs with the amount included in rates.

12       **Line 35 Retention Property Tax Incentive:** (E) This relates to the Company's  
13 retention for shareholders of 14 percent of various property tax refunds as allowed  
14 under its current and past electric rate plans. Because these revenues are retained  
15 by the Company, they are not included in the Rate Year revenue requirement.

16       **Line 36, AMI Customer Engagement Plan and AMI Rate Pilots**

17       **Reconciliation:** (E) This represents deferrals resulting from reconciling actuals to  
18 target levels set in the current rate plan for AMI Customer Engagement Plan and  
19 AMI Rate Pilots programs.

20       **Line 37, Carrying Charge on Energy Efficiency Programs:** (E); **Line 38,**

21       **Electric Vehicle Program Reconciliation:** (E) These lines represent deferrals  
22 resulting from reconciling actuals to target levels set in the current rate plan for

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1 EE related programs (*i.e.*, System Peak Reduction and Energy Efficiency),  
2 Electric Vehicle Programs, the BQDM program, and REV demonstration projects.

3 **Line 39, Climate Study:** (E) This represents expenses incurred for the Climate  
4 Change Vulnerability Study that is collected through the MAC.

5 **Line 40, GRT Public Utility Tax:** (E & G – Line 33) This line reflects gross  
6 receipts taxes on revenues other than the sale of gas. No activity is projected for  
7 the Rate Year.

8 **Line 41, Revenue Imputation - Cases 09-M-0114 and 09-M-0243:** (E & G –  
9 Line 42) This represents the revenues recorded by the Company to offset the  
10 revenue requirement effect of certain capital expenditures in order to limit  
11 recovery to the level approved by the Commission in its April 20, 2016 Order in  
12 Cases 09-M-0114 and 09-M-0243. The Company will adjust this amount on  
13 update, if and to the extent necessary and appropriate, consistent with  
14 Commission's Order.

15 **Line 42, Revenue Imputation - 2004-2007 Capital Overspend:** (E) represents  
16 the revenue recorded by the Company to offset the revenue requirement effect of  
17 capital expenditures in order to limit recovery to the level directed by the  
18 Commission's March 26, 2010 Order in Case 07-E-0523.

19 **Line 43, NYPA Related Revenue:** (E, G - Line 43) This line represents NYPA  
20 related revenues that are forecasted in sales revenues. Therefore, the Historic  
21 Year level of this item is normalized in this schedule.

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

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

5    A.    They are as follows:

6           **Line 8, Reimbursement To National Grid** – Governor’s Island: (G) This  
7           represents National Grid’s share of the revenues earned from gas sales to the  
8           United States Coast Guard in accordance with the Governors’ Island agreement  
9           and serves to offset the gross amount (including National Grid’s share) recorded  
10          in sales revenues. Embedded in the sales forecast is the historic level of revenue  
11          from National Grid. The Rate Year forecast was kept at the Historic Year level.

12          **Line 11, New York Facilities:** (G) This represents carrying charges billed by  
13          Con Edison to National Grid in accordance with the provisions of the New York  
14          Facilities Agreement. Such revenue is passed back to the customers through the  
15          MRA mechanism.

16          **Line 12, Real Estate Rents:** (G) This revenue primarily represents the gas  
17          department’s share of rental income from leasing property at the Company’s  
18          central headquarters building.

19          **Line 13, NYPA Variable and Maintenance and Line 14, Steam Department –**  
20          **ERRP Incremental Charges:** (G) These two items, which are grouped under the  
21          heading “transmission system reinforcement recoveries” represent recoveries of  
22          CECONY’s share of gas transmission facilities reinforcement costs from the



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1 generators that use gas that is delivered by the Company. Line 13 represents  
2 payments from generators for variable operating costs and upkeep of the Hunts  
3 Point Compressor. The Rate Year forecast is the average of these revenues for  
4 the prior three years (*i.e.*, October 1, 2015 through September 30, 2018). Line 14  
5 represents recoveries of reinforcement costs from the Steam Department. There  
6 are no additional recoveries from the Steam Department projected. As a result,  
7 the Rate Year forecast for these revenues remains at the Historic Year level.

8 **Note for Following Line Items:** Lines 15 through 32 are offset in energy and  
9 other clauses, such as the MFC / MRA. Line 39 is a deferral/reconciliation.  
10 Unless otherwise noted, no activity is projected for these items for the Rate Year.

11 **Lines 15-17, Non-Firm Revenues:** (G) These revenues are generated from  
12 serving non-firm customers and from efforts to maximize the value of assets  
13 obtained to meet the Company's firm customer requirements. These revenues are  
14 currently subject to the non-firm revenue sharing mechanism set forth in the  
15 current gas rate plan, which the Company is proposing to continue without  
16 change. The Company's filing reflects a \$65 million imputation in base rates.

- 17 ○ Line 15, Gas Purchased from Transportation Customers: This line  
18 represents "cash out" transactions with gas marketers.
- 19 ○ Line 16, Gas Penalties – Off Peak/Interruptible: This line represents  
20 penalties assessed to off-peak and interruptible customers for not  
21 switching to alternative fuel sources when required.

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1           o Line 17, Non-firm Interruptible Sales Credit: This line represents service  
2           fees related to off-system gas sales.

3           **Line 18, Asset Management Revenue:** (G) This item reflects revenues received  
4           for capacity releases. We do not reflect a Rate Year amount for this item in Other  
5           Operating Revenues because it is included as part of the non-firm revenue target.

6           **Line 21 Gas Interference Cost Sharing:** (G) These revenues are recorded to  
7           make the Company whole by offsetting certain refunds made to customers  
8           through the MRA for gas interference. An interference cost sharing agreement  
9           between NYC and the Company has been in effect since 1989 and provides for  
10          the City’s assumption of 51 percent of the cost of gas interference work  
11          occasioned by water and sewer projects performed by the NYC Municipal Water  
12          Finance Authority. It also provides for the refund to customers through the MRA  
13          of payments rendered by the City to the Company to comply with its cost-sharing  
14          obligation. Because the Company’s estimate of MRA revenues does not include  
15          this refund, we did not forecast an offsetting item in other operating revenues.

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

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1 R&D projects to be funded by these revenues are discussed by the Shared  
2 Services Panel. The forecast for the Rate Year includes program changes  
3 discussed by the Shared Services Panel.

4 **Line 24, Low Income Program:** (G) This line represents the accounting entries  
5 related to the deferral of low income discounts under the current gas rate plan.

6 **Line 25, Gas In Storage Reconciliation:** (G) This line represents the  
7 reconciliation of actual working capital for gas in storage compared to the level  
8 set under the current gas rate plan. Working capital on gas in storage is recovered  
9 volumetrically through the MFC and the MRA, instead of through base delivery  
10 rates. The revenues derived for working capital on gas in storage is calculated  
11 using the Company's allowed rate of return on the "base" or lowest inventory  
12 level of gas in storage during the year and the current other cost of capital rate on  
13 the average balances above the base amounts. In order to eliminate any impact on  
14 the Company's revenue requirement from resulting from differences on the  
15 carrying cost of gas in storage, we have eliminated both the gas in storage  
16 surcharge revenues from the forecast and the historic level of storage gas from  
17 rate base as shown in Exhibit AP-G2.

18 **Line 26, Credits and Collections:** (G) This line represents the accounting entries  
19 related to the deferral of the MFC Credits and Collections charges under the  
20 current gas rate plan.

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1       **Line 27, Gas SBC Revenue Deferral:** (G) This line represents an accounting  
2       entry related to the gas System Benefit Charge. The accounting entries record any  
3       over/under collection from customers for amounts expensed.

4       **Line 28, Supply Related Charge Revenue:** (G) This line represents the  
5       accounting entries related to the deferral of the difference between target and  
6       actual amounts collected for MFC-related charges approved by the Commission.

7       **Line 29, Gas Daily Delivery Service:** (G) This line represents the accounting  
8       entries related to the Gas Daily Delivery Service Program passed through the  
9       GCF.

10       **Line 30, Transportation Gas Adjustment:** (G) This line represents the  
11       accounting entries related to the collection of the transportation gas adjustment  
12       through the MRA.

13       **Line 31, SBU Balancing Charges:** (G) This line reflects the revenues recorded  
14       for gas transportation and balancing service to the Company's Steam Business  
15       Unit.

16       **Line 32, Gas Adjustment Clause ("GAC") Interest:** (G) The balance represents  
17       the accrued interest applicable to the GAC surcharge/refund. If the cost of gas to  
18       the Company that is recoverable from firm customers exceeds or falls below the  
19       total amount actually recovered through both the base rates and GAC revenues,  
20       the difference between the recoverable amount and the amount actually recovered  
21       is deferred, and is subsequently charged or refunded to customers, as appropriate.

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1 Pursuant to 16 New York Codes Rules & Regulations (“NYCRR”) Section 720-6.  
2 5, interest is accrued on these balances in the deferral accounts.

3 **Line 39, Pipeline Integrity Deferral:** (G) This line represents the reconciliation  
4 of pipeline integrity costs under the New York Facilities Agreement pursuant to  
5 the current gas rate plan. As the discussed by the GIOSP, the agreement has been  
6 amended and the Company proposes to recover all costs associated with the New  
7 York Facilities Agreement, including pipeline integrity costs, through the MRA in  
8 lieu of base rates and to terminate this reconciliation.

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

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

12 A. Detailed calculations of the O&M amounts are shown on Schedule 6 of Exhibits  
13 AP-3. This page shows the derivation of the projected expenses in the Rate Year  
14 from the Historic Year expense. Various Company witnesses, including the  
15 Accounting Panel, will explain any adjustments.

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

18 A. For electric, the Historic Year level of \$3,744 million is forecasted to decrease by  
19 \$627 million for a Rate Year level of \$3,117 million.

20 For gas, the Historic Year level of \$1,035 million is forecasted to increase by  
21 \$121 million for a Rate Year level of \$1,156 million.

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1 Please note that these figures represent overall electric and gas O&M expenses,  
2 which include fuel and purchase power and that normalizes a number of other  
3 types of reconciled costs in the Rate Year that do not impact the revenue  
4 requirement. For both electric and gas services, the non-reconciled portions of  
5 O&M expenses are increasing from the Historic Year to the Rate Year.

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

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

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

13 **a. General Escalation (Exhibits AP-3, Schedule 14)**

14 Q. Please describe how you escalated costs due to inflation.

15 A. The general escalation rate is applied to costs anticipated to increase at the rate of  
16 inflation as measured by the Gross Domestic Product ("GDP") price deflator.  
17 The labor component was removed from each element of expense and then the  
18 residual amounts were escalated using the GDP price deflator for most elements  
19 of expense subject to escalation. For certain expenses, the escalation factor is  
20 specifically tailored to the particular expense item, such as medical insurance  
21 costs, as addressed by the Company's Compensation and Benefits Panel.

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1 Additional detail on generally escalated costs is included in Schedule 14 of  
2 Exhibits AP-3.

3 Q. Please describe how the Company applied the general escalation rate in  
4 developing projected revenue requirements.

5 A. The GDP deflator published by the U.S. Bureau of Economic Analysis, used to  
6 escalate various non-labor elements of the cost of service as addressed throughout  
7 our direct testimony and the direct testimony of other witnesses, are based on  
8 actual data through the third quarter of 2018. The forecast for the fourth quarter  
9 of 2018 and the annual forecasts for 2019, 2020 and forward are from the Blue  
10 Chip Economic Indicators dated October 10, 2018. Using these forecasts, the  
11 projected cumulative effect of inflation for the 27 months from the Historic Year  
12 to the Rate Year is 5.29 percent.

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

14 Q. Please describe the labor cost escalation factor used to develop Rate Year labor  
15 cost.

16 A. The development of the labor escalation factor is presented in Schedules 15.1,  
17 15.2, and 15.3 of Exhibits AP-3 for RY1-3, respectively. We applied the  
18 calculated labor escalation factor to Historic Year labor expense amounts, labor  
19 expense normalizations, and labor expense program changes to determine the  
20 total Rate Year level of labor expense for electric and gas services.

21 Q. How was the labor escalation factor calculated?

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1 A The labor escalation factor is meant to reflect the labor expense increase  
2 associated with an average employee from the Historic Year to the Rate Year,  
3 independent of the effects of normalizations and program changes. As shown in  
4 the exhibits, the labor escalation factor is the weighted average of increase in  
5 management and weekly average straight time salaries and wages from the  
6 Historic Year to the Rate Year. For weekly employees, we included a general  
7 wage increase of 3.0 percent effective in July of each year. Semi-annual  
8 progression increases of 0.5 percent in October and February of each year are also  
9 included, but applied to only 60.7 percent of total weekly employees. The annual  
10 and progression wage increase rates are all pursuant to the collective bargaining  
11 agreements with union employees. The 60.7 percent figure is based on a five-  
12 year (2014-2018) average of the actual number of weekly employees that received  
13 progression increases as employees already at the maximum pay rate for their job  
14 title do not receive progressions. For management employees, we assumed  
15 annual 3.0 percent merit increases in April of each year.

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

17 A. No. As discussed in Section IV of this testimony, the Company is incorporating  
18 the anticipated savings of its BCO Program, which far exceeds the imputation  
19 customers would receive with the one percent productivity adjustment.

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

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



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

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

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

10 A. The Company adjusted O&M costs based on documented, planned program  
11 changes that are driven by the business needs of the Company. Estimated costs  
12 associated with these programs and additional detail regarding these costs are  
13 included in Schedule 16 of Exhibits AP-3.

14 **e. Common Expense Allocation**

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

17 A. The Company used existing allocation factors the Commission approved in the  
18 Company’s current rate plans. Customer Operations and Customer Services  
19 expenses were allocated 84 percent to electric and 16 percent to gas. A&G  
20 expenses were allocated 77.60 percent to electric, 15.95 percent to gas, and 6.45  
21 percent to steam.

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

3 A. The Company used the existing common expense split between CECONY and  
4 O&R, which is 92.45 percent allocated to CECONY and 7.55 percent allocated to  
5 O&R. This rate is updated annually by the Company using a three-part formula  
6 of revenues, assets, and payroll. To calculate the common expense allocation  
7 between electric, gas and steam services if they applied to O&R as well as  
8 CECONY, we took CECONY's existing allocation factor for each service (*i.e.*,  
9 Customer Operations and Customer Service expense – 84 percent electric, 16  
10 percent gas; A&G expense – 77.60 percent electric, 15.95 percent gas, 6.45  
11 percent steam) and multiplied it by CECONY's share of 92.45 percent. This  
12 resulted in Customer Operations and Customer Service expenses being allocated  
13 77.66 percent to CECONY electric, 14.79 percent to CECONY gas, with the  
14 remaining 7.55 percent allocated to O&R, and A&G expenses being allocated  
15 71.74 percent to CECONY electric, 14.75 percent to CECONY gas, 5.96 percent  
16 to CECONY steam, with the remaining 7.55 percent allocated to O&R.

17 Q. Is the Company proposing any adjustments to its methodology for allocating  
18 common expenses incurred at the parent company, Consolidated Edison, Inc.  
19 (“CEI”), and passed down to its subsidiaries?

20 A. Yes. To the extent that there are charges incurred at the CEI level that are to be  
21 allocated to all CEI subsidiaries, a three-factor allocation is applied using an  
22 average of operating revenue, segment payroll, and assets based on guidance from

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1 Cost Accounting Standard 403. The Company is proposing a change in the way  
2 that operating revenues are included within the formula.

3 Q. Please explain further.

4 A. Under the Company's current methodology, when applying the three-factor  
5 allocation, the Company includes revenues appearing on the income statements of  
6 the CEI subsidiaries. Because of the accounting rules for equity method  
7 investments, wherein only the Company's share of net income is recorded on the  
8 income statement, the revenues and expenses of CET's equity method  
9 investments (*i.e.*, New York Transco LLC, Mountain Valley Pipeline, LLC, and  
10 Stagecoach Gas Services LLC) are not presented on CET's financial statements.

11 As a result, for these investments, the formula reflects \$0 for the revenue factor.

12 In this proceeding, the Company is proposing to instead include CET's  
13 proportionate share of its equity method investments' revenues within its  
14 allocation formula.

15 Q. Where is the Company obtaining its revenue information for these investments?

16 A. The Company is using the 2017 audited financial statements for each of the three  
17 entities, which are the most recent audited annual financial statements available as  
18 of the time of this filing.

19 Q. How is this change reflected in the Company's filing?

20 A. The Company has included a program change in the Intercompany Shared  
21 Services Element of Expense within its O&M expenses that quantifies the change

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1 in shared CEI expenses allocated to CECONY as a result of the change in  
2 allocation approach.

3 Q. Is the Company proposing any changes to how it applies the other factors to  
4 CET's equity method investments?

5 A. No. The assets on CET's balance sheet already reflect the Company's investment  
6 in its equity method investments, so no adjustment is necessary to that factor.  
7 With respect to payroll, it is appropriate that the payroll factor is \$0 for CET's  
8 equity method investments. Employees of the investments are not paid by the  
9 Company nor do they make use of any of the Company's human resource  
10 functions. In addition, the employees of the investments are not managed on a  
11 day to day basis by Company personnel. Furthermore, payroll information is not  
12 included on the audited financial statements of the investments.

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

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

15 A. We set forth below detailed descriptions of each type of expense and a  
16 designation to which commodity(ies) it applies (E- Electric, G-Gas). For those  
17 line items that include common expenses, we indicate the total Company common  
18 expense amount and the portion allocated to electric and gas services. The  
19 remaining unstated amounts are allocated to steam service. For the Historic Year  
20 amount, any adjustments, and the Rate Year forecast for each line item, please see  
21 page 3 of Schedule 1.

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

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

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

18      **Line 4, Bargaining Unit Contract Cost:** (E, G) This item represents a program  
19      change for annualized costs associated with negotiation and strike contingency  
20      efforts discussed in detail in the direct testimony of the Shared Services Panel.  
21      We then escalated the Historic Year expense and program changes by the general  
22      escalation factor to arrive at the Rate Year amount.

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1       **Line 5, Bond Administration & Bank Fees:** (E, G) This item includes expenses  
2       for charges such as bank fees, revolving credit fees, line of credit fees, and credit  
3       rating agencies fees. The Historic Year expense is adjusted by a program change  
4       to reflect a three-year average of costs and escalated by the general escalation  
5       factor to arrive at the Rate Year level.

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

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

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

21      **Line 9, Company Labor - Corporate & Shared Services:** (E, G) The  
22      Company’s Corporate & Shared Services departments include, among others,

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1 Finance, Environmental Health & Safety, Emergency Management, Energy  
2 Management, Facilities & Field Services, Government Relations, Human  
3 Resources, Information Technology, Learning & Inclusion, Legal Services, Public  
4 Affairs, Office of the Secretary, President & Staff, R&D, Security, Strategic  
5 Planning and Supply Chain.

6 The total Rate Year forecast includes the below-listed program changes, which  
7 are discussed in detail in the direct testimony of the Shared Services 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 - A program change related to Management Variable Pay (“MVP”) to  
11 adjust Historic Year expenses to projected Rate Year expenses by  
12 applying the weighted average MVP award rate to Historic Year  
13 management straight time payroll. A select number of employees who are  
14 not eligible for MVP because they are being paid commissions for their  
15 work within the EE group have been adjusted out of the Company’s MVP  
16 calculation. Discussion of the commission-based variable compensation  
17 proposal can be found in the Customer Energy Solutions Panel’s  
18 testimony (as discussed in that testimony, we propose to recover this  
19 commission-based variable compensation through surcharges). We also  
20 note that Executive MVP awards are normalized from the Historic Year –  
21 see the discussion of Line 30, Executive MVP, below.

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1 - A program change to fund staffing to support REV and Energy Policy  
2 Programs within Resource Planning & Forecasting, Electricity Supply,  
3 and Gas Supply. This program change is discussed further within the  
4 testimony of witness Kimball.

5 - A program change related to hiring two employees to provide ongoing  
6 support and administration of a new Enterprise Project Management  
7 Software. Further details of this proposal can be found within the  
8 associated white paper, a copy of which is included in Exhibit AP-7.

9 - A program change related to costs associated with software maintenance  
10 and steady state IT support of a new estimating software product. Further  
11 details of this proposal can be found within the associated white paper, a  
12 copy of which is included in Exhibit AP-7.

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

14 This item reflects labor charges related to the Company’s Customer Energy  
15 Solutions group. The total Rate Year forecast includes the following program  
16 changes, which are discussed in detail in the direct testimony of the Customer  
17 Energy Solutions Panel. We then escalated the Historic Year expense and  
18 program changes by the labor escalation factor to arrive at the Rate Year amount.

- 19 - A program change related to EEDM DSP;  
20 - A program change related to Energy Storage – REV;  
21 - A program change to support the increased EEDM portfolio; and  
22 - A program change related to the Company’s Innovation Initiative



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

2           This item reflects labor charges related to the Company’s Customer Information  
3           System (“CSS”). The total Rate Year forecast includes a program change related  
4           to New CSS costs. The program change is discussed further within the Customer  
5           Energy Solutions Panel. We then escalated the Historic Year expense and the  
6           program change by the labor escalation factor to arrive at the Rate Year amount.

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

- 13                   - A program change related to Bill Redesign.
- 14                   - A program change related to DCX;
- 15                   - A program change related to C3 IoT Revenue Protection – Support;
- 16                   - A program change related to AMI savings for meter reading;
- 17                   - A program change related to AMI savings for field services;
- 18                   - A program change related to AMI savings within the call center;
- 19                   - A program change related to AMI savings in billing; and
- 20                   - A program change related to AMI savings for Replevin.

21          **Line 13, Company Labor- Electric Operations: (E, G)** This item relates to  
22          labor charges related to the Company’s Electric Operations departments. The

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1 Rate Year forecast for electric includes program changes discussed in detail in the  
2 direct testimony of the EIOP and noted below. We then escalated the Historic  
3 Year expense and program changes by the labor escalation factor to arrive at the  
4 Rate Year amount.

- 5 - A program change related to Emergency Response;
- 6 - A program change related to Tree Trimming;
- 7 - A program change related to Engineering & Other Services;
- 8 - A program change related to Structures/Poles; and
- 9 - A program change related to Meters & Other Customer Equipment.

10 **Line 14, Company Labor- Gas Operations:** (E, G) This item relates to labor  
11 charges related to the Company's Gas Operations departments. We escalated the  
12 Historic Year expense by the labor escalation factor to arrive at the Rate Year  
13 amount.

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

17 **Line 16, Company Labor- Steam Distribution:** This item relates to labor  
18 charges related to the Company's Steam Distribution departments. This is not  
19 applicable to electric or gas, but was included in the O&M schedules because the  
20 same element of expense line items are expected to be used for future steam rate  
21 case submissions as well.

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1       **Line 17, Company Labor- Substation Operations (“SSO”):** (E) This item  
2       relates to labor charges related to the Company’s SSO departments. The Rate  
3       Year forecast for electric includes Cricket Valley Substation costs discussed in  
4       detail in the direct testimony of the EIOP. We then escalated the Historic Year  
5       expense and program changes by the labor escalation factor to arrive at the Rate  
6       Year amount.

7       **Line 18, Company Labor- System & Transmission Operations (“STO”):** (E)  
8       This item relates to labor charges related to the Company’s STO departments.  
9       We escalated the Historic Year expense by the labor escalation factor to arrive at  
10      the Rate Year amount.

11      **Line 19, Corporate and Shared Services:** (E, G) This item relates to non-labor  
12      charges for the Company’s Corporate & Shared Services departments that are not  
13      already covered in another line item (*e.g.*, Line 21, Environmental Affairs, Line  
14      25, Facilities & Field Services, Line 26, Finance & Accounting Operations, Line  
15      29, Information Technology, Line 61, Research & Development, and Line 62,  
16      Security). These departments include Emergency Management, Government  
17      Relations, Human Resources, Learning & Inclusion, Legal Services, Public  
18      Affairs, Office of the Secretary, President & Staff and Supply Chain.  
19      The Rate Year forecast for electric and gas reflects a program change related to  
20      the Learning & Inclusion’s Digital Learning Transformation program, which is  
21      discussed in detail in the direct testimony of the Shared Services Panel.

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1 The Rate Year forecast for electric and gas also reflects a program change related  
2 to Energy Management implementing a Gas Transaction System and nMarket  
3 Replacement, both of which are discussed in the direct testimony of the GIOSP.  
4 We escalated the Historic Year expense and program changes discussed above by  
5 the general escalation factor to arrive at the Rate Year amount.

6 **Line 20, Corporate Fiscal Expense:** (E, G) This item includes costs of annual  
7 reporting services and meeting, trustee and committee fees including equity  
8 grants, as well as stock transfer agent fees and stock exchange registration fees.  
9 We escalated the Historic Year expense by the general escalation factor to arrive  
10 at the Rate Year amount.

11 **Line 21, Customer Energy Solutions:** (E, G) This item relates to non-labor  
12 charges for the Company's Customer Energy Solutions departments not already  
13 reflected in the AMI or Customer Information System line, which includes  
14 departments such as Demonstration Projects, EE, Rate Engineering, and Utility of  
15 the Future. This item includes a number of program changes discussed further in  
16 the Customer Energy Solutions Panel's direct testimony including:

- 17 - Funding to expand the Company's integration of Energy Storage into its  
18 network;
- 19 - A program to advance the Company's Innovation Initiative,
- 20 - Funding for the Company's proposed Distributed System Platform  
21 ("DSP") programs, including a Demand Management Tracking System,

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1                   Web Services Interface, and Demand Management Analytics Platform;

2                   and

3                   - Support for the Company’s expanded EE portfolio.

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

6                   **Line 22, Customer Information System:** (E, G) This line item represents O&M  
7                   costs associated with implementing the Company’s new CSS. The program  
8                   change is discussed further within the Customer Energy Solutions Panel.

9                   **Line 23, Dynamic Load Management (“DLM”):** (E) The Rate Year forecast is  
10                  normalized to remove from the revenue requirement an expense that is recovered  
11                  through surcharge. This surcharge recovers costs for programs such as the  
12                  Commercial System Relief Program, Distribution Load Relief Program, Direct  
13                  Load Control, and Smart AC programs. The Company’s filing does not include  
14                  any projected recovery of the cost of DLM through surcharge, thus there is no  
15                  impact on the Company’s revenue requirement.

16                  **Line 24, Demand Response Programs:** (E) The Rate Year forecast is  
17                  normalized to remove from the revenue requirement an expense that is recovered  
18                  through surcharge. The Company’s filing does not include any projected  
19                  recovery of the cost of demand response programs through surcharge, thus there  
20                  is no impact on the Company’s revenue requirement.

21                  **Line 25, Duplicate Misc. Charges:** (E, G) This item is comprised of credits for  
22                  charges made to operating expenses or other accounts for the Company’s own use

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1 of utility service. The Rate Year amount was held constant at the Historic Year  
2 expense.

3 **Line 26, Employee Welfare Expense:** (E, G) In its direct testimony, the  
4 Company's Compensation and Benefits Panel discuss costs and programs totaling  
5 \$188 million in the Rate Year (\$156 million allocated to electric and \$32 million  
6 allocated to gas). In addition to the amounts supported by the Compensation and  
7 Benefits Panel, other employee welfare related fees such as service awards and  
8 administration support are included in this line and escalated using the labor  
9 escalation factor. In addition, costs associated with the Deferred Income Plan are  
10 normalized out of the historic period because this pertains to officers' benefits.  
11 The Company is not seeking to recover these costs through rates in this  
12 proceeding, but the Company reserves its rights to seek the recovery of such costs  
13 in future rate proceedings.

14 **Line 27, Energy Efficiency:** This item relates to the non-labor charges related to  
15 the Company's EE departments. The line item is not being used in this case as  
16 EE costs are allocated to other elements of expense.

17 **Line 28, Environmental Affairs:** (E, G) This item relates to the non-labor  
18 charges related to the Company's Environmental Health & Safety departments.  
19 We escalated the Historic Year expense by the general escalation factor to arrive  
20 at the Rate Year amount.

21 **Line 29, ERRP Major Maintenance:** (E) ERRP Major Maintenance costs are  
22 fully reconciled. The Rate Year expense of \$10.703 million is consistent with the

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1 level included in the Company’s current electric rate plan. The Company  
2 recorded a normalization to present both the cost and reconciliation to rate level  
3 of ERRP major maintenance as expense rather than partially as a reduction to  
4 other operating revenue. The Company will revisit the five-year forecast for  
5 major maintenance expenses during the preliminary update to determine whether  
6 refinement of the annual allowance is appropriate.

7 **Line 30, Executive MVP:** (E, G) The Company normalized the Rate Year  
8 forecast to eliminate the cost of the executive variable pay plan and long-term  
9 equity grants. The Company is not seeking to recover these costs through rates in  
10 this proceeding, but reserves its rights to seek the recovery of such costs in future  
11 rate proceedings.

12 **Line 31, External Audit Services:** (E, G) The Company contracts for services  
13 provided by PwC, such as auditing, research, and training. The Rate Year  
14 forecast includes a normalization of one-time costs in the historic year related to  
15 Sarbanes-Oxley Act of 2002 (“SOX”) optimization efforts and a program change  
16 to reflect the latest audit fee schedule available. We then escalated the Historic  
17 Year expense and program changes by the general escalation factor to arrive at  
18 the Rate Year amount.

19 **Line 32, Facilities and Field Services:** (E, G) This item relates to the non-labor  
20 charges related to the Company’s Facilities and Field Services departments, such  
21 as building maintenance and janitorial services. We escalated the Historic Year  
22 expense by the general escalation factor to arrive at the Rate Year amount.

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1       **Line 33, Finance & Accounting Operations:** (E, G) This item relates to the non-  
2       labor charges related to the Company’s Finance and Accounting Operations  
3       departments and select other corporate charges. The Company made a  
4       normalization adjustment to adjust for expenses that were reimbursed during the  
5       Historic Year resulting from the Company providing support to Puerto Rico’s  
6       hurricane recovery efforts. Another normalization was made to remove charges  
7       paid during the Historic Year to the Company’s BCO consultant. In addition, we  
8       made changes to account for a program change related to ongoing support and  
9       administration of a proposed Enterprise Project Management Software, a program  
10      change related to cloud hosting fees and support of a new estimating software  
11      product, and software support costs of a proposed regulatory accounting software  
12      tool. Further details of these proposals can be found within the associated white  
13      papers included as part of Exhibit AP-7. We then escalated the Historic Year  
14      expense adjusted for the normalization adjustments and program changes by the  
15      general escalation factor to arrive at the Rate Year amount.

16      **Line 34, Indian Point Contingency:** (E) The Indian Point Contingency plan  
17      addresses 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  
22      authorized to recover all costs through the MAC on a deferred basis over a ten-



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1 year period. This normalization adjustment removes the \$28.5 million in  
2 amortization costs for the Historic Year.

3 **Line 35, 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 in  
6 general. The total Rate Year forecast includes program changes including  
7 funding for Oracle license support, cybersecurity, a proposed analytics center of  
8 excellence, a digital factory initiative, mainframe upgrades, cloud-based services,  
9 and a robotic process automation initiative. These program changes are all  
10 discussed in detail in the direct testimony of the IT Panel. We then escalated the  
11 Historic Year expense and program changes by the general escalation factor to  
12 arrive at the Rate Year amount.

13 **Line 36, Informational Advertising:** (E, G) This item relates to informational  
14 advertising directed to customers. The Historic Year expense was adjusted by a  
15 program change to reflect budgeted expenses and escalated by the general  
16 escalation factor to arrive at the Rate Year amount.

17 **Line 37, Injuries & Damages/ Workers Compensation:** (E, G) In accordance  
18 with prior practice in rate case filings, the Company forecasted the Rate Year  
19 level of injuries and damages and workers compensation expenditures based on  
20 the average net claim payments for the most recent three-year period (*i.e.*,  
21 October 2015 through September 2018), escalated using the general escalation  
22 factor.

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1       **Line 38, Institutional Dues & Subscription:** (E, G) This item includes  
2       membership fees paid to the American Gas Association (“AGA”), Edison Electric  
3       Institute (“EEI”), and other association dues and membership fees. The Rate Year  
4       forecast includes program changes to reflect a three-year average of costs. We  
5       then escalated the Historic Year expense and program changes by the general  
6       escalation factor to arrive at the Rate Year amount. Consistent with the  
7       Commission’s requirements, the Company excluded from its proposed revenue  
8       requirement all trade association lobbying costs.

9       **Line 39, Insurance Premium:** (E, G,) This item includes insurance premiums the  
10      Company incurs for items such as property insurance, liability insurance,  
11      Directors and Officers insurance, and cyber security insurance. A program  
12      change was recorded to align expenses with the latest premiums and then  
13      escalated using the general escalation factor.

14      **Line 40, Intercompany Shared Services:** (E, G) This item reflects intercompany  
15      billing between the Company and CEI. A normalization adjustment eliminates  
16      the Company’s portion of the insurance premiums expense from the Historic  
17      Year, so such expense, which is included in Line 39, Insurance Premiums, in this  
18      section of the testimony, is only included once. A program change was also  
19      recorded to reflect a proposed change in the way that CEI common expenses are  
20      allocated to subsidiaries. See the above discussion on “Common Expense  
21      Allocation” for further detail. We then escalated the Historic Year expense,

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1           normalization, and program change by the general escalation factor to arrive at  
2           the Rate Year amount.

3           **Line 41, Load Dispatching and PJM Wheeling:** (E) This item represents the  
4           accounting entries to defer and amortize the recovery of PJM OATT costs for the  
5           Historic Year. This program change to electric matches expenses that are  
6           collected as a separate surcharge through the MAC with the related MAC  
7           revenues to avoid a revenue requirement effect. At this point, there is no longer a  
8           PJM wheeling contract and the credit to expense and reduction of revenue  
9           represents the estimated return of prior overbillings which will be refunded to  
10          customers through the MAC.

11          **Line 42, New York Facilities:** (G) On July 27, 1950, the Company, Brooklyn  
12          Union Gas Company and Long Island Lighting Company, (which are now known  
13          as KEDNY and KEDLI, respectively) executed the New York Facilities  
14          Agreement to facilitate the introduction of natural gas into the New York area.  
15          The Commission approved the exchange payment and line loss reimbursement  
16          provisions of the most recently updated version of the New York Facilities  
17          Agreement on October 18, 2018. The New York Facilities Agreement provides,  
18          among other things, for the apportionment of costs for participants' use of other  
19          participants' facilities. As discussed in the GIOSP testimony and in section  
20          XVII.B of the Accounting Panel testimony below, the Company is proposing to  
21          change recovery of receipts and payments under the New York Facilities  
22          Agreement from base rates to the MRA. Therefore, we reflected a normalization

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1 adjustment for costs and revenues associated with this item in the revenue  
2 requirement. We escalated the remaining Historic Year level of costs by the  
3 general escalation factor to arrive at the Rate Year amount.

4 **Line 43, Ops-Central Engineering:** (E) This item relates to the non-labor  
5 charges related to the Company's Central Engineering departments. We escalated  
6 the Historic Year expense by the general escalation factor to arrive at the Rate  
7 Year amount.

8 **Line 44, Ops-Construction Management:** (E, G) This item relates to the non-  
9 labor charges related to the Company's Construction Management departments.  
10 We escalated the Historic Year expense by the general escalation factor to arrive  
11 at the Rate Year amount.

12 **Line 45, Ops-Customer Operations:** (E, G) This item relates to the non-labor  
13 charges of the Company's Customer Operations departments. The Rate Year  
14 forecast includes program changes discussed in the direct testimony of the  
15 Customer Operations Panel, including changes to the manner in which the  
16 Company collects the costs of credit card payment of utility bills. Further  
17 program changes request funding to implement bill redesign, and enhance the  
18 DCX, revenue protection, and replevin. We then escalated the Historic Year  
19 expense and program changes by the general escalation factor to arrive at the Rate  
20 Year amount.

21 **Line 46, Ops-Electric Operations:** (E, G) This item relates to non-labor charges  
22 related to the Company's Electric Operations departments. The Rate Year

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1 forecast for electric includes program changes discussed in detail in the direct  
2 testimony of the EIOP, including program changes for emergency response, tree  
3 trimming, engineering and other services, and structures/poles. We then escalated  
4 the Historic Year expense and program changes by the general escalation factor to  
5 arrive at the Rate Year amount.

6 **Line 47, Ops-Gas Operations:** (E, G) This item relates to non-labor charges  
7 related to the Company’s Gas Operations departments. The Rate Year forecast  
8 for gas includes program changes discussed in detail in the direct testimony of the  
9 GIOSP including costs related to additional inspections and repairs due to an  
10 amendment to the definition of “gas service line” and a program change to  
11 perform methane detector maintenance. We then escalated the Historic Year  
12 expense and program changes by the general escalation factor to arrive at the Rate  
13 Year amount.

14 **Line 48, Ops-Interference:** (E, G) The Company has an extensive system of  
15 electric and gas infrastructure within the streets of its service territory. As  
16 discussed in the direct testimony of the Municipal Infrastructure Support Panel,  
17 when a municipality plans to perform work and is unable to complete the  
18 proposed plan absent our relocating Company facilities that are “in the way,” the  
19 Company bears all the costs to locate, move, support, protect and/or relocate the  
20 facilities affected by the municipality’s construction activity. These costs are  
21 referred to as “interference costs.” The Rate Year forecast includes a program  
22 change discussed in the direct testimony of the Municipal Infrastructure Support

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

3 **Line 49, Ops-Production:** (E) This item relates to non-labor charges related to  
4 the Company’s Production departments. The Rate Year forecast includes a  
5 program change related to work that needs to be completed to comply with Local  
6 Law 11, which is discussed in further detail within the EIOP Panel. This line also  
7 includes a program change to reflect the projected Rate Year amount of other fuel  
8 charges for electric. We then escalated the Historic Year expense and program  
9 changes by the general escalation factor to arrive at the Rate Year amount.

10 **Line 50, Ops-Steam Distribution:** This item relates to non-labor charges related  
11 to the Company’s Steam Distribution departments. This line item is not  
12 applicable to electric or gas but was included in the O&M schedules because the  
13 same element of expense line items are expected to be used for future steam rate  
14 case submissions as well.

15 **Line 51, Ops-Substation Operations (“SSO”):** (E) This item relates to non-  
16 labor charges related to the Company’s SSO departments. The Rate Year forecast  
17 for electric includes program changes discussed in detail in the direct testimony of  
18 the EIOP related to the substation EH&S risk mitigation program, Hellgate wharf  
19 refurbishment, Cricket Valley substation, and a roof and structural repairs  
20 program. We then escalated the Historic Year expense and program changes by  
21 the general escalation factor to arrive at the Rate Year amount.

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1       **Line 52, Ops-System & Transmission Operations (“STO”):** (E) This item  
2       relates to non-labor charges related to the Company’s STO departments. A  
3       normalization was recorded to exclude non-recurring costs associated with  
4       PSE&G Feeder B3402. The Rate Year also reflects program changes related to  
5       physical/cyber security, a 345kv shunt reactor priority study, and specialized  
6       transmission planning studies, all of which are explained in further detail within  
7       the EIOP testimony. We escalated the Historic Year expense by the general  
8       escalation factor to arrive at the Rate Year amount.

9       **Line 53, Other Compensation (Long-Term Equity):** (E, G) This line includes  
10      the executive variable pay plan, and officer and non-officer long-term equity  
11      grants, which is made up of time based and performance based restricted stock  
12      expenses. The Rate Year program change for non-officer time based and  
13      performance based restricted stock expenses are based on the stock price of  
14      \$81.99 and the number of outstanding shares of 89,500 at December 4, 2018. We  
15      escalated the program changes by the general escalation factor to arrive at Rate  
16      Year amounts.

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

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1       **Line 54, Outside Legal Services** (E, G) This item includes the cost of outside  
2       legal counsel. We escalated the Historic Year expense by the general escalation  
3       factor to arrive at the Rate Year estimate.

4       **Line 55, Pension and OPEB:** (E, G) This line reflects the actuarially determined  
5       level of expenses for employee pensions and OPEBs, which was based on two  
6       studies performed by the Company's actuary, Buck Consultants, dated November  
7       26, 2018 for both pensions and OPEBs. The studies incorporate the Company's  
8       actual historical experience supplemented by assumptions of future activity.  
9       Assumptions used in the forecast of pensions were a discount rate of 4.5 percent  
10      and an expected return on plan assets of 7.0 percent. OPEB projections were  
11      based on a discount rate of 4.40 percent, return on assets of 7.0 percent for the  
12      401(h) account, 7.6 percent for the Management Life Insurance VEBA, 7.1  
13      percent for the Management Health VEBA and 6.6 percent for projecting the  
14      assets for the Weekly Health VEBA from January 1, 2019.

15    Q.    Please summarize the estimate of the Rate Year employee pensions/OPEBs  
16      expense.

17    A.    The net amount of the actuarially determined level of expense for employee  
18      pensions/OPEBs and other payments, net of capitalization, for all three  
19      commodities for the Historic Year is \$216 million, with \$163.9 million allocable  
20      to electric and \$35.9 million allocable to gas. The Rate Year estimated cost is  
21      \$147 million (\$114 million allocable to electric and \$23.4 million allocable to  
22      gas). This \$69 million decrease (\$49.8 million allocable to electric and \$12.5



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1 million allocable to gas) in accounting cost is attributed to multiple factors. One  
2 key driver for the decrease in the accounting cost from the Historic Year to the  
3 Rate Year is the change in the discount rate. The pension discount rate was  
4 4.25% for the three months ended December 31, 2017, and was 3.70% for the  
5 nine months ended September 30, 2018. For the Rate Year, the projected pension  
6 discount rate is 4.50%. A higher discount rate results in a lower level of expense.  
7 This was partially offset by a decrease in the expected return on plan assets, from  
8 7.50% expected in the Historic Year, to 7.00% for the Rate Year.

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

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

14 **Line 56, RCA- Amort. of MGP/Superfund:** (E, G) The program change  
15 associated with this line item is to align expenses with the level of SIR cost  
16 amortization as addressed in Section XVII (Reconciliations & Deferred  
17 Accounting) of our direct testimony.

18 **Line 57, RCA- Amort. of Energy Efficiency Programs:** (E, G) The program  
19 change associated with this line item is to align expenses with the level of EE  
20 program amortization as addressed in XVII (Reconciliations & Deferred  
21 Accounting) of our direct testimony.

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1       **Line 58, Regional Gas Greenhouse Initiative (“RGGI”):** (E) We normalized  
2       the Rate Year forecast to remove the Historic Year expense because it is collected  
3       through the MAC.

4       **Line 59, Regulatory Commission Expense-18A:** (E, G) We normalized the Rate  
5       Year forecast to remove the 18-a Surcharge Assessment during the Historic Year.  
6       The 18-a Surcharge Assessment was discontinued effective January 1, 2018.

7       **Line 60, Regulatory Commission Expense-All Other:** (E, G) This item includes  
8       costs of participating in regulatory proceedings (*e.g.*, consultants, outside legal  
9       counsel). The Rate Year forecast reflects a three-year average of costs escalated  
10      by the general escalation factor to arrive at the Rate Year amount.

11      **Line 61, Regulatory Commission Expense-General and R&D:** (E, G) We  
12      forecasted the Rate Year Commission Assessment based on the latest  
13      Commission Assessment letter dated February 2018, excluding refunds, for the  
14      2018-2019 State fiscal year ending March 31, 2019. We then escalated it by  
15      using the general escalation factor to arrive at the Rate Year forecast. The  
16      Company will update this element of expense based on any additional  
17      Commission Assessment letters received during these proceedings.

18      **Line 62, Renewable Portfolio Charges:** (E) There are no expenses incurred in  
19      the Historic Year and no expenses projected in the Rate Year for this element of  
20      expense.

21      **Line 63, Rents – ERRP:** (E) This expense, which is recovered through the MAC,  
22      is an interdepartmental rent that is offset in steam’s Other Operating Revenues.

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1 Because the Company is not filing for new steam rates to be effective January 1,  
2 2020 concurrent with the electric and gas filings, the \$77.218 million of revenues  
3 in steam rates, reflected in RY3 of the current steam rate plan, will continue to be  
4 reflected in steam rates. Under the current electric rate plan, the Commission  
5 authorized the Company to defer the impact of the change in expense to steam,  
6 starting in 2017 and annually thereafter (until steam base rates are reset), whether  
7 positive or negative, to continue the “earnings neutral” nature of these revenues to  
8 the Company.

9 **Line 64, Rents-General:** (E, G) This item represents general rents paid to lease  
10 various properties or land on which the Company operates. We escalated the  
11 Historic Year expense by the general escalation factor to arrive at the Rate Year  
12 estimate.

13 **Line 65, Rents-Interdepartmental:** (E, G) The Rate Year forecast for electric  
14 includes a program change primarily attributable to increases to the book costs of  
15 the Ravenswood, Flushing and Astoria tunnels, which are part of Gas Plant, and  
16 an increase to the book cost of the Hudson Avenue Tunnel, which is part of Steam  
17 Plant.

18 **Line 66, Research & Development:** (E, G) This item relates to non-labor charges  
19 related to the Company’s R&D department. We escalated the Historic Year  
20 expense level using the general escalation factor to arrive at the Rate Year  
21 amount.

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1       **Line 67, Security:** (E, G) This item relates to non-labor charges related to the  
2       Company's Corporate Security department. We escalated the Historic Year  
3       expense by the general escalation factor to arrive at the Rate Year amount.

4       **Line 68, Storm Reserve:** (E) The Company is proposing to maintain the Historic  
5       Year level of storm reserve expenditures, as increased by the general escalation  
6       factor, to arrive at the Rate Year amount. Please also see the Deferrals and  
7       Reconciliation section for additional detail on the major storm reserve target.

8       **Line 69, System Benefit Charge:** (E, G) This line item is normalized because the  
9       System Benefit Charge is collected as a separate surcharge.

10      **Line 70, Uncollectible Reserve-Customer:** (E, G) This item represents a  
11      provision and write-off of customer accounts receivables which are not expected  
12      to be recovered by the Company. The Company's uncollectible factor, *i.e.*, write-  
13      offs as a percent of revenues, for electric and gas equates to \$0.46/\$100 for the  
14      Historic Year. We applied this factor to the Rate Year levels of sales revenues  
15      and late payment charges. For electric, this resulted in uncollectible accounts  
16      expense of \$36,229,000 before accounting for the proposed rate increase.  
17      For gas, applying the same \$0.46/\$100 rate results in the Rate Year level of  
18      uncollectible accounts expense of \$9,690,000 before accounting for the proposed  
19      rate increase.

20      **Line 71, Uncollectible Reserve-Sundry:** (E, G) This item represents a provision  
21      and write-off of miscellaneous accounts receivables which are not expected to be  
22      collected by the Company. The Rate Year amount includes a program change to

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1 reflect a twenty-four month annualized average for the period October 2016  
2 through September 2018.

3 **Line 72, Worker’s Comp NYS Assessment:** (E, G) This line item represents  
4 assessment payments by employers to the NYS Workers’ Compensation Board  
5 (“WCB”). The assessment rates are determined by the WCB each year and the  
6 Company estimates its expenses based on the latest available rates and projected  
7 payroll levels. The Company recorded a program change to reflect the latest  
8 available estimates as of the time of the filing. We then escalated the Historic  
9 Year expense and program changes by the general escalation factor to arrive at  
10 the Rate Year amount.

11 **Line 73, All Other:** (E, G) This line item includes miscellaneous and general  
12 expenses that did not fit into other categories of expense discussed above. We  
13 then escalated the Historic Year expense by the general escalation factor to arrive  
14 at the Rate Year amount.

15 **Line 74, Business Cost Optimization (“BCO”) - Labor:** (E, G) This line item  
16 reflects the customer share of labor-related savings associated with the  
17 Company’s BCO Program. As discussed within the BCO section of this  
18 testimony, the amounts presented on this line consist of program changes for the  
19 projected net O&M savings partially offset by a program change representing the  
20 Company’s proposed share of savings.

21 **Line 75, Business Cost Optimization – Non-Labor:** (E, G) This line item  
22 reflects the customer share of non-labor-related savings associated with the

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1 Company's BCO Program. As discussed within the BCO section of this  
2 testimony, the amounts presented on this line consist of program changes for the  
3 projected net O&M savings partially offset by a program change representing the  
4 Company's proposed share of savings.

5 **Line 76, Company Labor – Fringe Benefit Adjustment:** (E, G) This adjustment  
6 represents the increase in employee welfare expenses and workers' compensation  
7 related to the increase or decrease in employees through program changes as  
8 sponsored by various Company witnesses, including the Accounting Panel. We  
9 escalated the program change by the general escalation factor to arrive at the Rate  
10 Year amount.

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

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

14 A. Schedule 7.1 shows the depreciation and amortization amounts at current  
15 depreciation rates, with no additional recovery of the reserve deficiency for the  
16 period from September 2018 to December 2022. Schedule 7.2 shows the  
17 depreciation and amortization amounts at current depreciation rates after  
18 increasing the annual recovery of the reserve deficiency for the same period.  
19 Rate Year depreciation and amortization is based on projected plant balances  
20 through the Rate Year and composite depreciation rates for current plant accounts.  
21 Both are discussed in detail in the Depreciation Panel's testimony.

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

3 A. For electric, the Historic Year level of \$966.3 million is forecast to increase by  
4 \$163.5 million for a Rate Year level of \$1,129.8 million.

5 For gas, the Historic Year level of \$199 million is forecast to increase by \$79.2  
6 million for a Rate Year level of \$278.2 million.

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

9 A. For electric, the Historic Year level of \$966.3 million is forecast to increase by  
10 \$183.5 million for a Rate Year level of \$1,149.8 million.

11 For gas, the Historic Year level of \$199 million is forecast to increase by \$87.2  
12 million for a Rate Year level of \$286.2 million.

13 Q. Please summarize the Company's proposed depreciation and amortization  
14 expense.

15 A. These figures reflect existing electric and gas depreciation rates and a \$20 million  
16 recovery of reserve deficiencies for electric and an \$8 million recovery of reserve  
17 deficiencies for gas, as explained by the Depreciation Panel.

18 Q. Please explain why the Company is not proposing to increase its depreciation  
19 rates, as found warranted in the Company's Depreciation Studies.

20 A. The Company is filing with existing depreciation rates in order to mitigate the  
21 proposed rate increase.

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

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

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

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

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

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

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

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

21      Q.     Please explain the Taxes on Health Insurance shown on Schedule 8 of Exhibits  
22          AP-3.



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1 A. New excise taxes are scheduled to become effective under the Affordable Care  
2 Act in 2022. The forecasts for Taxes on Health Insurance are based on thresholds  
3 that are subject to change based on future Consumer Price Index change. See also  
4 “Taxes on Health Insurance” in section XVII (Reconciliations & Deferral  
5 Accounting) of this testimony.

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

8 A. These are the state and local sales and use taxes paid by the Company when  
9 acquiring a broad range of goods and services. The amount shown is the portion  
10 of such taxes chargeable to expense as opposed to being capitalized. A  
11 normalization adjustment was recorded to reflect sales and use tax refunds  
12 recorded during the Historic Year. We have escalated the Historic Year amounts  
13 to recognize general inflation in the cost of goods and services. The forecast does  
14 not assume any change in sales tax rates.

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

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

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

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

4       A.     Schedule 9 details the NYS income tax computation. We calculated the NYS  
5           income tax expense using a 6.5 percent tax rate.  
6           Schedule 10 details the federal income tax computation. The federal income  
7           taxes are computed using the 21 percent tax rate. The Schedule shows the  
8           amortization of excess deferred FIT (“EDFIT”) broken out in the following four  
9           categories: protected plant, unprotected plant, accelerated unprotected plant and  
10          non-plant. The EDFIT represents the difference in the amounts the Company  
11          collected from its customers at a 35 percent tax rate to pay future income taxes,  
12          and the Company’s future tax liabilities at a 21 percent tax rate. The Company  
13          proposes to refund the protected component over the remaining lives of the  
14          underlying plant assets and the unprotected and non-plant components over five  
15          years.  
16          Schedule 10 also reflects a credit to customers for an estimated amount of an  
17          R&D tax credit (testified to by the Income Tax Panel) that reduces the Company’s  
18          federal income tax expense in the Rate Year.

19       **XI. FUND REQUIREMENTS AND SOURCES (Exhibits AP-3, Schedule 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 \$247 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 \$1,389 million and new issuances are projected at  
7 \$625 million, offset by projected common stock dividends of \$930 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. Our projections show internal sources of funds will  
12 provide \$2,750 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 \$247 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 \$2,997 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-3,**  
4 **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 \$300  
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, 2018) through the Rate Year (*i.e.*,  
5           December 31, 2020) 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 currently effective rate, plus \$20 million in reserve  
14           deficiencies recovery for electric and \$8 million in reserve deficiencies recovery  
15           for gas. Page 3 of Schedule 1 shows the projected monthly net plant balances  
16           from the end of the Historic Year to the start of the Rate Year, which served as a  
17           basis for our Rate Year projections.

18           Using projected capital expenditures provided to us by various witnesses in these  
19           proceedings, we estimated transfers to plant in service. We then added the  
20           estimated transfers to the actual plant in service account balances at September  
21           30, 2018 and deducted the projected book cost of plant retired to give us a book

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1 cost of plant. In order to develop net plant balance, we deducted accumulated  
2 depreciation from book cost of plant.

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

4 A. Schedule 2 of these exhibits contains two pages. Page 1 of Schedule 2 shows  
5 projected CWIP in rate base for the Rate Year. Page 2 of Schedule 2 shows  
6 CWIP in rate base from the end of the Historic Year to the start of the Rate Year.  
7 Each page shows non-interest bearing CWIP that is included in rate base and the  
8 balance subject to AFUDC, or interest bearing CWIP, that is not included in rate  
9 base.

10 Q. Please describe how you developed the non-interest bearing CWIP projections  
11 included in electric and gas rate base.

12 A. Using projected capital expenditures provided to us by various witnesses in these  
13 proceedings and the Company's books and records for CWIP balances as of the  
14 end of the Historic Year, we estimated transfers to plant in service and the  
15 resulting CWIP balances.

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

18 A. Yes.

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

20 A. Schedule 3 shows the capital expenditure projections for calendar years 2019  
21 through 2023 reflected in our net plant and CWIP forecasts.

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

2    Q.     How is the cost of common plant allocated between Con Edison and O&R?

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

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

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

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

14   Q.     Is the Accounting Panel sponsoring an exhibit regarding the required rate of  
15           return?

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

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

20   A.     Schedule 1 of these exhibits shows the actual capital structure for the Company as  
21           of the end of the Historic Year, the average cost rate for each component of the  
22           capital structure and the related cost of capital. The Company's overall weighted

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1 cost of capital at the end of the Historic Year was 6.81 percent for both electric  
2 and gas.

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

4 A. These schedules show the projected average capital structure, the average cost  
5 rate for each component of the capital structure and the related cost of capital for  
6 the Rate Year and the two following twelve-month periods ending December 31,  
7 2021 and 2022, respectively. The Company's overall weighted cost of capital for  
8 the Rate Year is projected to be 7.29 percent.

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

10 A. The Company proposes a 50.00 percent common equity ratio for the Rate Year.  
11 Witness Saegusa explains in her testimony that this equity ratio is appropriate and  
12 necessary to address the Company's recent credit downgrade and weakened cash  
13 flow profile.

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

15 A. To derive the average long-term debt for the each of the Rate Years presented in  
16 this filing, we determined the amount of long-term debt outstanding at the end of  
17 each month from the end of the Historic Year through December 31, 2022. We  
18 then used these figures to calculate the average balance of long-term debt  
19 outstanding for each period.

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

21 A. We estimated changes in the outstanding amount of debt each month from the end  
22 of the Historic Year forward based on the forecasted funding requirements.



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1 Schedules 5, 6, 7, and 8 of Exhibits AP-5 list the actual long-term debt balance as  
2 of the end of the Historic Year and the projected monthly balances. The  
3 forecasted average amount of long-term debt for the Rate Year is \$15,623 million  
4 as shown on Schedule 6 of Exhibits AP-5.

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

7 A. With respect to customer deposits, we started with the actual average balance  
8 during the Historic Year of \$335 million. The balance is expected to grow by  
9 approximately two percent per year making the average balance of customer  
10 deposits for the Rate Year \$352 million. The two percent annual growth rate is  
11 based on the actual average annual change in customer deposits for the Historic  
12 Year.

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

14 A. As explained by Company witness Saegusa and as set forth in Exhibits AP-5,  
15 Schedule 2, the forecasted capital structure for the thirteen months ending  
16 December 31, 2020 includes a common stock equity ratio of 48.53 percent.  
17 Schedules 3 and 4 of Exhibits AP-5 show that the Company's equity ratio would  
18 increase to 48.63 percent for the twelve-month periods ending December 2021  
19 and 2022, respectively. To the extent that the recommended equity ratio of 50.00  
20 percent is agreed upon, the Company would modify its debt and equity issuances  
21 to work toward achieving that ratio.

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

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- 1 A. Con Edison's long-term debt consists of tax-exempt debt issued through  
2 NYSERDA and debenture bonds. The average annual cost rate of this debt is  
3 calculated by dividing the annual interest requirements for all long-term debt  
4 issues, including the annual amortization of the net amount of any premiums or  
5 discounts realized when the securities were sold and the cost and expense of  
6 issuance, by the amount of long-term debt outstanding. As shown on Schedules 6  
7 through 8 of Exhibits AP-5, the average cost of long-term debt for the Rate Year  
8 is 4.86 percent, 4.90 percent for the twelve months ending December 31, 2021  
9 and 4.95 percent for the twelve months ending December 31, 2022.
- 10 Q. What cost rate for customer deposits is reflected in the overall rate of return?
- 11 A. We reflected the current rate as set by the Commission of 2.45 percent. The  
12 Commission reviews this rate annually.
- 13 Q. What rate of return on common equity is reflected in the overall rate of return?
- 14 A. As noted above, we have used a return on common equity of 9.75 percent to  
15 calculate the overall rate of return. For the Rate Year, the overall rate of return is  
16 7.29 percent, which we used in determining the revenue requirement for the Rate  
17 Year.
- 18 Q. Will the rate of return be updated in this proceeding?
- 19 A. The Company may update the rate of return as part of the Company's rebuttal and  
20 update testimony if financial conditions at that time warrant such an update.
- 21 Q. Who determines what Con Edison's dividend payments to CEI will be?
- 22 A. CEI's Board of Trustees makes that determination.



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- 1           • Enterprise Project Management Software Project, which aims to improve  
2           project management capabilities for capital construction projects;
- 3           • Regulatory Accounting Application Upgrade, which will enable the  
4           Company to better manage the process of preparing rate cases and other  
5           regulatory filings;
- 6           • Estimating Software Development Project, which will enable the  
7           Company to better prepare estimates for project appropriations, cost  
8           management functions and project administration purposes;
- 9           • Budget and Forecast Analytics Project, which will provide the Company  
10          with the capability to leverage actual data when developing budgets and  
11          forecasts to generate analysis and trending;
- 12          • BI Enhancements Project, which aims to enhance the Oracle Business  
13          Intelligence reporting module and upgrade its predictive analytics-enabled  
14          decision-making tools;
- 15          • Oracle Financial Close and Consolidation Project, which will implement a  
16          new consolidation system to enhance automation and integration of the  
17          systems supporting the financial statement close process; and
- 18          • PowerPlan Application Cloud Migration/Upgrade, which will migrate the  
19          Company’s Fixed Asset, Lease, and Tax accounting software system from  
20          an on-premise tool to a cloud software solution as well as provide  
21          necessary upgrades to prevent obsolescence.

22    Q.    Have you provided supporting documentation for each project?

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- 1 A. Yes. Each project is supported by a white paper that includes a description of the  
2 project, projected costs, and an explanation of the business need for the project.  
3 These white papers are included in Exhibits AP-7.

4 **XVII. RECONCILIATIONS AND DEFERRED ACCOUNTING**

- 5 Q. Does the Company currently employ deferred accounting as permitted under  
6 Accounting Standards Codification 980, Regulated Operations?  
7 A. Yes. The Commission has authorized the Company to employ deferred  
8 accounting to match the recognition of expenditures with the recovery of certain  
9 costs when they are either beyond the Company’s direct control and therefore not  
10 subject to reasonable estimation, the timing of the actual expenditure is not  
11 certain, or in furtherance of State and/or Commission policy objectives. The  
12 Commission similarly employs deferred accounting regarding the Company’s  
13 actual, potential or unexpected receipts of various revenues and credits. The  
14 approach is intended to protect the interests of customers and investors by  
15 avoiding a “windfall” for one or the other and the approach of amortizing the  
16 costs over subsequent periods serves the purpose of minimizing rate volatility.

17 **A. Net Plant Reconciliation**

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

- 19 Q. Please describe electric and gas net plant reconciliation under the Company’s  
20 current rate plans.  
21 A. The revenue requirement impact of actual electric net plant (excluding AMI) is  
22 subject to downward-only reconciliation. The revenue requirement impact of

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1 actual gas net plant (excluding AMI) is subject to full downward reconciliation,  
2 with the possibility of limited upward reconciliation of certain municipal  
3 infrastructure support (interference) costs as specified in the rate plan.

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

6 A. The Company proposes that the current electric and gas net plant reconciliation  
7 mechanisms continue, each with a modification to reconcile fully all interference  
8 capital as explained below. In addition, the Company proposes an adjustment to  
9 electric net plant reconciliation to account for certain NWS, as discussed by the  
10 Customer Energy Solutions panel and in our testimony below.

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

12 A. As explained by the Municipal Infrastructure Support Panel, interference costs are  
13 mandatory expenditures incurred to support local and state government projects.  
14 As such, they are beyond the Company's direct control. Moreover, NYC,  
15 Westchester County municipalities, and NYS are all planning projects that will  
16 cause the Company to incur significant interference costs in the upcoming years.  
17 These project plans are still under development and, in the case of NYC's coastal  
18 resiliency program project, NYC is currently pursuing a new entirely different  
19 alternative design, further hampering the Company's ability to reasonably forecast  
20 its interference costs. It is clear from the scope of the projects that these costs will  
21 be significant. The Company has included projected interference costs in these  
22 rate filings that are considerably higher than in past cases. For instance, total

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1 projected capital interference costs for RY1-RY3 are \$604 million for electric and  
2 \$327 million for gas. Capital interference costs for the three years of the current  
3 rate plans totaled \$376 million for electric and \$244 million for gas. Accordingly,  
4 a change in a project plan could have a significant impact on the Company's  
5 overall capital spending plan. In order to avoid a situation where this impairs the  
6 Company's ability to manage its portfolio of capital projects effectively, the  
7 Commission should permit the Company to reconcile fully its interference capital  
8 costs.

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

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

19 **2. AMI Net Plant**

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

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

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

7 A. The Company proposes that the current AMI reconciliation mechanism continue  
8 without modification.

9 **3. Non-Wires Solutions (“NWS”) and Non-Pipeline Solutions**  
10 **(“NPS”)**

11 Q. Please describe how cost recovery of NWS and NPS is structured under the  
12 Company’s current electric and gas rate plans.

13 A. Under the Company’s current electric rate plan, costs of any new NWS (*i.e.*, those  
14 not included in rate base) are recovered over ten years through the MAC and  
15 NYPA OTH Statement. The rate plan further provides that to the extent an NWS  
16 results in the Company displacing a capital project included in its electric net  
17 plant target, the Company nets the carrying charge associated with the displaced  
18 capital project against the surcharge recovery of the NWS project. Any remaining  
19 credit is deferred for the benefit of customers. The current gas rate plan does not  
20 address recovery of NPS projects.

21 Q. What is the Company’s proposal regarding cost recovery of NWS and NPS for  
22 the Rate Year?



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1 A. As discussed by the Customer Energy Solutions Panel, the Company is actively  
2 evaluating NWS. In its preliminary update filing, the Company may include costs  
3 for certain NWS in base rates. To the extent an NWS is included in base rates and  
4 does not successfully displace a traditional electric project (and that traditional  
5 project is not reflected in the electric net plant target), the Company proposes to  
6 increase the electric net plant target to account for the cost of the traditional  
7 project. If the Company determines that the NWS currently being evaluated are  
8 not feasible, it will account for the cost of the traditional project in the preliminary  
9 update.

10 To the extent that the Company proposes costs for NWS to be deferred as  
11 regulatory assets and recovered in base rates, the Company will also propose a  
12 rate base reconciliation of such costs. This reconciliation would make customers  
13 whole for any underspending on NWS relative to anticipated costs in the event the  
14 Company transitions back to a traditional project from an NWS.

15 For any new NWS that arises during the term of the rate plan (*i.e.*, one not  
16 included in base rates), the Company proposes that cost recovery continue under  
17 the ratemaking framework established in the Company's current electric rate plan,  
18 as discussed above.

19 Recovery of NPS will be governed by the Commission's order issued August 9,  
20 2018 in the Smart Solutions proceeding (Case 17-G-0606).

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1                                   **4. Investment Related to Generation Retirements**

2    Q.    What is the potential generation retirement project and what is the Company’s  
3           proposal for cost recovery related to that project?

4    A.    As discussed by the EIOP, constraints and reliability issues may emerge if third-  
5           party generators retire due to market forces or regulations adopted by the New  
6           York State Department of Environmental Conservation (“DEC”) regulations.  
7           These generator retirements, if they occur, may require the Company to invest in  
8           upgrades to its transmission, substation and/or distribution systems to solve  
9           reliability issues. Because of the uncertainty associated with market forces, the  
10          DEC regulations and the potential generation retirements, EIOP cannot forecast  
11          the project or the costs that the Company would incur to implement such a  
12          project. Accordingly, the costs of the project(s) that could result from such  
13          retirements is not reflected in the electric net plant target. The Company  
14          accordingly proposes to recover the revenue requirement impact of this project  
15          through a surcharge subject to audit if it occurs.

16                                   **B. Other Deferral Accounting and Reconciliation Mechanisms**

17    Q.    What is the Company proposing regarding the use of deferral accounting and  
18           reconciliation mechanisms for expenses not related to utility plant?

19    A.    The Company is proposing to continue all deferral accounting and reconciliation  
20           mechanisms that are in effect during the current electric and gas rate plans unless  
21           otherwise noted below. The deferral and reconciliation mechanisms that are  
22           proposed to continue include, but are not limited to, the existing supply rider

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1 provisions (*e.g.*, MSC, MAC, GCF, MRA) and deferral and reconciliation  
2 mechanisms for such items as property tax expense, pensions and OPEBs, SIR  
3 costs, East River station maintenance costs, AMI Customer Engagement Plan and  
4 AMI Rate Pilots, REV demonstration projects, BQDM, Pipeline Safety Act, low  
5 income discounts, the weighted average cost of variable rate long-term debt and  
6 changes in costs as a result of legislative, regulatory and/or related actions.

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

9 Q. Why is the Company proposing the continuation of the existing reconciliation  
10 mechanisms?

11 A. Those reconciliation mechanisms are related to costs that are significant, highly  
12 variable even in the near term, and not subject to reasonable estimation, protect  
13 the interests of customers and investors and are appropriate. We note in that  
14 regard that the Company is subject to the Commission's Policy Statement on  
15 Pensions and Other Post-Employment Benefits and is required to true-up its  
16 annual pension and OPEB costs to the levels provided in base rates. Others, such  
17 as those related to the System Benefits Charge and Low Income customer charge  
18 discounts, are in furtherance of public policy objectives. Moreover, continuing  
19 these true-ups in connection with a one-year rate determination could enable the  
20 Company to delay the need for rate relief at the expiration of the Rate Year.

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1                                   **1. Modified Deferral or Reconciliation Mechanisms**

2                                           **a. Property Tax Reconciliation (Electric and Gas)**

3    Q.    Does the Company propose modifications to the Property Tax Reconciliation  
4            Mechanism?

5    A.    Yes. The Company proposes a full and symmetrical reconciliation of property  
6            taxes applicable separately to electric and gas. Such a reconciliation for property  
7            taxes is needed regardless of whether a single year rate order or multi-year rate  
8            plan is adopted by the Commission in these proceedings.

9    Q.    Please explain the basis for this proposal.

10   A.    The Company’s Property Tax Panel explains at length why property taxes are not  
11           subject to reasonable estimation and why a full reconciliation is appropriate. The  
12           Company’s property taxes are subject to, among other things, the vagaries of  
13           municipal management and economic circumstances.

14           Absent the full and symmetrical reconciliation mechanism we propose, similar  
15           circumstances may result in significant windfall for either customers or the  
16           Company, at the expense of the other. As the Company’s Property Tax Panel  
17           explains, the Company has historically sought to minimize its taxes and that  
18           continues on an ongoing basis – it is a normal course of business for the  
19           Company, even during times when a full reconciliation was in effect.

20                                           **b. Interference Reconciliation (Electric and Gas)**

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

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1 A. Yes. For the reasons explained in the direct testimony of the Company’s  
2 Municipal Infrastructure Support Panel, the Company is proposing that a full and  
3 symmetrical reconciliation mechanism replace the partial and asymmetrical  
4 reconciliation mechanism currently in effect under the Company’s rate plans for  
5 Municipal Infrastructure Support O&M expenses.

6 Q. Is the current interference reconciliation mechanism flawed?

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

19 **c. Energy Efficiency (“EE”) (Electric and Gas)**

20 Q. Is the Company proposing to modify the reconciliation for its EE program?

21 A. Yes. The ratemaking framework established in the Company’s current electric  
22 rate plan provides for the recovery of forecasted EE costs over ten years using the

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1 overall pre-tax rate of return. The revenue requirement associated with electric  
2 EE costs are subject to a downward-only reconciliation on an annual basis. The  
3 Company proposes to implement a comparable regulatory asset for gas EE costs  
4 and apply downward reconciliation to the Company's aggregate total revenue  
5 requirement impact of electric and gas EE spending over a three-year period (*i.e.*,  
6 2020-2022) so as to facilitate flexibility between the electric and gas EE  
7 programs.

8 In these rate filings, the Company has included both EE program costs and ETIP  
9 costs that are being moved from a surcharge to base rates as electric and gas EE  
10 regulatory assets. The reconciliation for this combined program would be  
11 implemented similar to the reconciliation of AMI costs, where costs would be  
12 fully reconciled to the amounts included in electric and gas revenue requirements,  
13 but subject to the aggregate revenue requirement established by the Commission  
14 for the combined portfolio.

15 As explained in the testimony of the Customer Energy Solutions Panel, in light of  
16 the timing of the Commission's December 2018 Order in Case 18-M-0084 on EE,  
17 the Company did not have adequate time to complete its review and evaluation of its  
18 EE program prior to finalizing its revenue requirements. The Customer Energy  
19 Solutions Panel explains that the Company may submit adjustments to its EE  
20 programs at the preliminary update stage of these proceedings, which would change  
21 the revenue requirements associated with those programs.

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1                                   **d.     Electric Vehicles (“EV”) (Electric)**

2    Q.    Is the Company proposing to modify the reconciliation mechanism for the  
3           regulatory asset associated with its EV program?

4    A.    Yes. The ratemaking framework established in the Company’s current electric  
5           rate plan, provides for the recovery of forecasted EV costs over ten years using  
6           the overall pre-tax rate of return. The EV costs are subject to a downward-only  
7           reconciliation on an annual basis. The Company proposes to modify the  
8           mechanism to apply downward reconciliation to the Company’s aggregate EV  
9           spending over a three-year period (*i.e.*, 2020-2022).

10                               **e.     Major Storm Reserve (Electric)**

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

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

16          The Company is also proposing to continue forward the major storm reserve  
17          balance. The storm reserve balance as of September 30, 2018 is approximately \$7  
18          million. In the Company’s last electric base rate case, Case 16-E-0060, the Staff  
19          Accounting Panel recommended that the Company’s major storm reserve balance  
20          continue forward to fund future storms, noting that “[s]ince it is difficult to predict  
21          the timing and extent of damage a major storm may inflict on the Company’s  
22          operations, it is important that the Company maintain a reserve balance.” The  
23          same rationale applies in this case. The Company’s current storm reserve balance

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1 represents a relatively small proportion of reserve dollars initially set aside for  
2 storm recovery during the electric rate plan. In the event of another major storm  
3 event similar to winter storms Riley and Quinn, the Company could need to draw  
4 on the balance to respond effectively to the storm--particularly in light of the  
5 Company's proposal to allow it to charge the reserve for all pre-staging and  
6 mobilization costs for major storms that do not occur (discussed further below and  
7 in the testimony of the EIOP). As such, it is appropriate to continue forward the  
8 balance of the storm reserve, while maintaining the current storm reserve level, as  
9 increased by the general escalation factor.

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

12 A. Yes. The Company is seeking to (i) eliminate the \$3.0 million annual cap  
13 associated with cost recovery for mobilization for a forecasted major storm that  
14 does not occur and (ii) remove the two percent deductible for eligible expenses.  
15 The business justification for both changes is discussed in the testimony of the  
16 EIOP.

17 **f. Gas Service Lines (Gas)**

18 Q. Is the Company proposing to modify the deferral of the costs associated with its  
19 implementation of a change to the gas service line definition?

20 A. Yes. As discussed in the testimony of the GIOSP, the costs to implement the  
21 change in gas service line definition are still uncertain. For instance, there is a  
22 NYC regulation under consideration that may impact the Company's gas



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1 inspection responsibilities. Although the Company has included an estimated  
2 amount in its gas revenue requirement, the actual amounts incurred could differ  
3 significantly given the uncertainties associated with the leakage survey and  
4 corrosion inspection requirements. As a result, the Company is proposing to  
5 modify the existing mechanism to permit the Company to reconcile fully actual  
6 expense above or below the estimated amounts.

7 **2. New Deferral Or Reconciliation Mechanisms**

8 Q. Does the Company propose to establish any new deferral or reconciliation  
9 mechanisms?

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

11 **a. MTA (Electric)**

12 Q. Do the electric revenue requirements reflect costs incurred by the Company to  
13 comply with Commission’s orders in Case 17-E-0428 to safeguard and maintain  
14 adequate utility service to the subway system (“MTA-related costs”)?

15 A. Yes. As explained in the EIOP testimony, the Commission exercised its  
16 emergency authority and directed the Company to take specific enumerated steps  
17 “to safeguard and maintain adequate utility service to the MTA subway system.”  
18 The Commission directed the Company to take actions in two orders in Case 17-  
19 E-0428, one the Commission issued on August 16, 2017 (“August Order”) and a  
20 second the Commission issued on November 10, 2017 (“November Order”).

21 Q. Did either of these Orders discuss the Company’s recovery of these MTA-related  
22 costs?

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1 A. Yes. The November Order stated as follows (p.10):

2 This order does not address or provide for any cost recovery. The  
3 August 16, 2017 Order and this order will result in a change in Con  
4 Edison's annual electric costs or expenses not anticipated in the  
5 forecasts and assumptions on which rates in the current rate plan are  
6 based. Because in this instance the ten (10) basis point annual deferral  
7 threshold in the rate plan creates a perverse incentive for Con Edison  
8 to delay work, the Commission will entertain waiving it in this  
9 instance if Con Edison can demonstrate that it has sufficiently  
10 expedited the emergency work in a cooperative and prudent manner.  
11 By compliance with the ordering clauses Con Edison does not waive  
12 any of its rights to recover or seek recovery of any prudently incurred  
13 costs, and the Commission reserves all of its rights to approve or deny  
14 such costs in any future rate case. Any deferral will be considered in  
15 light of the level and nature of spending within existing rate  
16 allowances.

17  
18 Q. What actions did the Company take in response to the November Order?

19 A. As provided in the November Order, the Company deferred for future  
20 recovery from customers all costs incurred pursuant to the Commission's  
21 Orders except for the capital expenditures and O&M expenses incurred by  
22 the Company to inspect, repair, replace and/or improve Con Edison  
23 facilities that were affected by the Orders, which the Company sought to  
24 accommodate within existing rate allowances.

25 As to the above-described work on Con Edison facilities, pursuant to the  
26 November Order's pronouncement that "[a]ny deferral will be considered  
27 in light of the level and nature of spending within existing rate  
28 allowances," capital expenditures (which amounted to approximately \$30  
29 million through RY2) were considered with the Company's other electric

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1 capital expenditures for purposes of the net plant reconciliation calculation  
2 in Rate Year 1 and Rate Year 2 under the current electric rate plan.

3 As to the O&M expenses incurred by the Company for the above-  
4 described work on Con Edison facilities (which amounted to  
5 approximately \$1 million), the Company decided to not defer or otherwise  
6 seek recovery of these O&M expenses in this rate proceeding. Our  
7 decision should not be interpreted as the Company accepting that it is not  
8 otherwise entitled to recover these prudently-incurred costs.

9 Q. What is the cost of Commission-ordered work on MTA facilities that the  
10 Company proposes to recover in this proceeding?

11 A. During Rate Years 1, 2 and 3 of the Company's current electric rate plan,  
12 the Company expects to incur \$243 million of MTA-related costs other  
13 than for work on Con Edison facilities, including interest at the  
14 Commission's Other Customer Provided Capital Rate. The Company  
15 proposes to recover these costs over a five-year period, starting in RY1, in  
16 order to mitigate customer bill impacts and further notes that this five-year  
17 period aligns with our proposed period for crediting customers with excess  
18 deferred taxes, as discussed in the Income Tax Panel's testimony.

19 Q. What is the basis for the Company's recovery of these costs?

20 A. The above excerpt from the November Order draws language directly from  
21 the "new laws" provision of the Company's current electric rate plan, which  
22 provides as follows:

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1 If at any time any other law, rule, regulation, *order*, or other requirement or  
2 interpretation (or any repeal or amendment of an existing rule, regulation,  
3 order or other requirement) of the federal, State, or local government or courts,  
4 including a requirement that Con Edison refund its tax exempt debt, *results in a*  
5 *change in Con Edison’s annual electric or gas costs or expenses not anticipated*  
6 *in the forecasts and assumptions on which the rates in this Proposal are based in*  
7 *an annual amount, calculated and applied separately for electric and gas,*  
8 *equating to ten (10) basis points of return on common equity or more, Con*  
9 *Edison will defer on its books of account the full change in expense, with any*  
10 *such deferrals as credits or debits to be reflected in the next base rate case or in a*  
11 *manner to be determined by the Commission.* [emphasis added]  
12

13 As discussed in the EIOP testimony, all of the MTA-related costs, including  
14 the work on MTA facilities, are the result of Commission-ordered actions in  
15 the August Order and November Order.

16 Q. Is the ten-basis point threshold applicable to any of the Rate Years under the  
17 current electric rate plan?

18 A. It is expected to be applicable to Rate Year 3.

19 Q. Please explain.

20 A. The Company currently expects to incur \$9.1 million in MTA costs during  
21 Rate Year 3 for incidental work, which is less than the 10-basis point  
22 threshold for Rate Year 3 under the current electric rate plan (which is  
23 estimated to be \$16.5 million measured at the 35 percent federal income tax  
24 rate, or \$13.6 million measured at the 21 percent federal income tax rate).  
25 However, this threshold should be waived and the Rate Year 3 costs fully  
26 recovered.

27 Q. Why should the Commission waive the threshold for Rate Year 3?

28 A. The November Order specifically provides for waiver of this threshold “if  
29 Con Edison can demonstrate that it has sufficiently expedited the emergency

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1 work in a cooperative and prudent manner.” As explained in the EIOP  
2 testimony, the Company met the standard established by the Order for the  
3 waiver of this threshold, as it diligently undertook efforts to expedite all  
4 MTA-related work in a cooperative and prudent manner.

5 **b. Taxes on Health Insurance (Electric and Gas)**

6 Q. Has the Company included any Taxes on Health Insurance in the electric and gas  
7 revenue requirements in this rate filing?

8 A. No. However, as discussed in the direct testimony of the Compensation and  
9 Benefits Panel, new excise taxes are scheduled to become effective under the  
10 Affordable Care Act in 2022. The excise tax is based on thresholds that are  
11 subject to change based on future Consumer Price Index changes. Due to the  
12 uncertainty in the threshold amounts, there could be considerable variation from  
13 the actual taxes incurred and the level forecasted in rates. Moreover, there  
14 continue to be attempts to overturn provisions of the Affordable Care Act through  
15 legislative or judicial action. As a result, it is possible the excise tax will not  
16 become effective at all. Given such ambiguity, a reconciliation mechanism would  
17 be appropriate in a rate plan that covers RY3 for both gas and electric service to  
18 protect the interests of both the Company and customers.

19 **3. Terminated Deferral or Reconciliation Mechanism**

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

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1 A. Yes. The Company proposes to terminate the deferral or reconciliation  
2 mechanisms discussed below.

3 **a. World Trade Center (“WTC”) (Electric and Gas)**

4 Q. The current rate plans continued deferral accounting for WTC-related capital  
5 costs in excess of insurance and other recoveries. Is the Company proposing to  
6 terminate this mechanism going forward?

7 A. Yes. The revenue requirements in these cases do not include any deferrals or  
8 amortizations related to WTC costs as the prior amortizations have expired and no  
9 additional costs or insurance or other recoveries are projected. As a result, the  
10 Company proposes to terminate this reconciliation.

11 **b. New York Facilities Charges – Pipeline Integrity Costs**  
12 **and Amended New York Facilities Agreement Reconciliation**  
13 **(Gas)**

14 Q. Under the current gas rate plan, the Company reconciles the difference between  
15 revenues/payments made for pipeline integrity programs under the original New  
16 York Facilities Agreement and the amount included in gas rates. Is the Company  
17 proposing to terminate this mechanism going forward?

18 A. Yes. As discussed by the GIOSP, the original New York Facilities Agreement has  
19 been amended. The Company is proposing that net payments and receipts under  
20 the amended New York Facilities Agreement (including those for pipeline  
21 integrity costs) among the Company, The Brooklyn Union Gas Company d/b/a  
22 National Grid NY (“Brooklyn Union”), and KeySpan Gas East Corporation d/b/a  
23 National Grid (“Gas East”), be moved from base rates to be recovered or refunded

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1 through the MRA. As a result, the reconciliation for pipeline integrity costs will  
2 no longer be necessary. Thus, provided amended New York Facilities Agreement  
3 costs are recovered/refunded through the MRA, the Company proposes to  
4 terminate the existing reconciliation.

5 Q. Under the current gas rate plan, the Company is also reconciling the difference  
6 between all revenues/payments under the amended New York Facilities  
7 Agreement (including line losses) and the amount included in gas rates. Is the  
8 Company proposing to terminate this mechanism going forward?

9 A. Yes. As explained above, the Company is proposing that net payments and  
10 receipts under the amended New York Facilities Agreement (including those for  
11 pipeline integrity costs and line loss) among the Company, The Brooklyn Union  
12 Gas Company d/b/a National Grid NY (“Brooklyn Union”), and KeySpan Gas  
13 East Corporation d/b/a National Grid (“Gas East”), be moved from base rates to  
14 be recovered or refunded through the MRA. As a result, the reconciliation will no  
15 longer be necessary. Thus, provided amended New York Facilities Agreement  
16 costs are recovered/refunded through the MRA, the Company proposes to  
17 terminate the existing reconciliation.

18 **c. System Peak Reduction (Electric)**

19 Q. Under the current electric rate plan, funding for the System Peak Reduction  
20 program is subject to a downward-only reconciliation. Is the Company proposing  
21 to terminate this reconciliation going forward?

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1 A. Yes. The Company is no longer pursuing a System Peak Reduction program. As  
2 a result, the reconciliation is no longer necessary.

3 **d. Electric Vehicles-O&M (Electric)**

4 Q. Under the current electric rate plan, EV O&M funding is subject to a downward-  
5 only reconciliation. Is the Company proposing to terminate this reconciliation  
6 going forward?

7 A. Yes. As explained in the Customer Energy Solutions testimony, the Company  
8 proposes to recover all EV program costs through the regulatory asset associated  
9 with EV programs. As a result, the EV-related O&M reconciliation is no longer  
10 necessary.

11 **e. Gas R&D Reconciliation (Gas)**

12 Q. Under the current gas rate plan, gas R&D funding is subject to a downward-only  
13 reconciliation. Is the Company proposing to terminate this reconciliation going  
14 forward?

15 A. Yes, for the reasons explained in the Shared Services Panel testimony.

16 **XVIII. OTHER ACCOUNTING ISSUES**

17 **A. Accounting for Positive/Negative Revenue Adjustments and EAMs**

18 Q. Is there accounting guidance necessitating accounting and ratemaking changes in  
19 this proceeding?

20 A. Yes. Under ASC 980, Regulated Operations, positive and negative revenue  
21 adjustments stemming from the Company's gas, electric and customer service  
22 performance mechanisms fall under the definition of alternative revenue



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1 programs. Under this guidance, the recording of deferred revenue related to  
2 alternative revenue programs may not be recorded for GAAP reporting until the  
3 collection is determined to be within 24 months from the end of the annual period  
4 in which they are recognized. As such, the Company is proposing a recovery  
5 mechanism that will allow for recording of revenues at the time the revenue  
6 adjustments are assessed (as opposed to deferral/credit until the next base rate  
7 case).

8 Q. What does the Company propose regarding the timing recognition of these  
9 alternative revenue items?

10 A. In order to resolve the timing issue described above, the Company proposes to  
11 collect future positive and negative revenue adjustments through the MAC/MRA,  
12 as applicable. The Company currently reports on whether it has met the targets in  
13 its electric, gas and customer service performance metrics in the first quarter of  
14 each calendar year and calculates whether any negative or positive revenue  
15 adjustments are appropriate. The Company's Electric and Gas Rate Panels further  
16 discuss collection of the revenue adjustments through the MAC/MRA. The  
17 collections will be subject to adjustment if the Commission determines that the  
18 Company's calculations should be corrected or if an alternative disposition is  
19 applicable.

20 The current rate plans indicate the Company will defer/credit any positive and  
21 negative revenue adjustments for the 2017-19 rate years and address them in the  
22 next base rate filing. For the 2017 and 2018 rate years , the Company included

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1 the credits/deferrals in these filings. For the 2019 rate year, the adjustments will  
2 not be known until RY1. As such, the Company plans to note in its annual  
3 performance mechanism reports for 2019 that, because the collection/refund will  
4 occur beyond the term of the existing rate plans, the Company will collect any  
5 revenue adjustments through the MAC/MRA.

6 EAMs also fall under the definition of alternative revenue programs. The  
7 Company currently collects any earned electric and gas EAMs through the  
8 MAC/MRA, respectively, within 24 months of their being earned. The Company  
9 proposes to continue the cost recovery scheme for the electric and gas EAMs as  
10 proposed in the Customer Energy Solutions Panel’s testimony.

11 **B. Property Tax Refund Sharing**

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

14 A. The Commission should continue the 86% customer / 14% Company sharing  
15 mechanism for property tax refunds, including credits against tax payments or  
16 similar forms of tax reductions (intended to return or offset past overcharges or  
17 payments determined to have been in excess of the property tax liability  
18 appropriate for Con Edison), net of costs incurred to achieve them, that exists  
19 under the current electric and gas rate plans with one modification. In many  
20 instances, the Company determines it is less costly (and thus better for customers)  
21 to negotiate future assessment reductions in a property tax settlement because a  
22 municipality is unable or unwilling to provide a cash refund or credit. The

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1 alternative is to pursue lengthy litigation in an attempt to obtain a refund award  
2 that could strain the municipality's finances. The nature of these reductions are  
3 fundamentally the same as cash refunds, to which the sharing mechanism plainly  
4 applies. As such, the sharing mechanism should be modified to include savings  
5 from both cash refunds/credits and reductions in future assessments. The  
6 Company's approach to calculating savings and its underlying rationale for  
7 proposing to share in such savings is explained by the Company's Property Tax  
8 Panel.

9 This modification to the tax sharing mechanism is consistent with established  
10 Commission practice to incent utilities to pursue property tax reductions.

11 Moreover, as explained by the Company's Property Tax Panel, the Company's  
12 recent property tax settlements have produced material future benefits for  
13 customers.

14 Q. The Company is also proposing full reconciliation of property taxes for both gas  
15 and electric operations. How would this sharing mechanism operate in  
16 conjunction with those reconciliation mechanisms?

17 A. During the term of the rate plans, the Company will pass the benefit of any  
18 credit/reduced tax assessment to customers through the full reconciliation  
19 mechanisms. When base rates are reset, the full benefit of any continuing lower  
20 assessments would be passed through to customers because it is captured in the  
21 Test Year data and reflected in the Company's forecasts.

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1 Under the sharing mechanism, the Company will receive 14 percent of any credit  
2 in the year the credit is received. In the case of an annual reduction in property  
3 taxes under a settlement agreement, the Company will receive the 14 percent  
4 share for the term of the settlement agreement. The Property Tax Panel explains  
5 that this will put the Company in the same position regardless of the form of tax  
6 relief - a one time credit or reduced assessments over a longer period of time.  
7 This will incentivize the Company's to continue to aggressively pursue tax  
8 reductions that benefit customers without litigation, when appropriate. In order to  
9 share in the value of the reduced assessment (as well as demonstrate their actual  
10 receipt), the Company will file a petition and make annual compliance filings, as  
11 described in the testimony of the Property Tax Panel.

12 **XIX. MULTI-YEAR RATE PLAN**

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

15 A. Yes. The Company has included, for illustrative purposes only, financial  
16 information for two annual periods beyond the Rate Year. Details of the revenue  
17 requirement for the Rate Year and the two following twelve-month periods,  
18 ending December 31, 2021, and December 31, 2022, are presented within  
19 Exhibits AP-3.

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

21 A. Various Company witnesses have presented forecasts extending beyond the Rate  
22 Year. There are also proposals by various witnesses, including the Accounting

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1 Panel, which would affect periods beyond the Rate Year, such as amortization  
2 periods for deferred costs and credits.

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

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

9 **XX. FINANCE BCO**

10 Q. In your testimony above, you discussed the Company’s efforts to mitigate the cost  
11 of providing electric and gas service by implementing the BCO Program. Please  
12 discuss the general type of costs that the Finance organization incurs and how it  
13 developed its BCO Program initiatives.

14 A. The majority of costs incurred by the Finance organization are O&M expenses;  
15 Company labor accounts for approximately 90 percent of these expenses. The  
16 Finance organization incurs a relatively small amount of other non-labor O&M, as  
17 well as capital expenditures related to periodic upgrades and enhancements of the  
18 Company’s financial systems (*e.g.*, Oracle Finance and Supply Chain, PowerPlan  
19 Fixed Assets software, PowerTax,). Generally, these capital expenditures relate  
20 to projects involving outside contractors. For the BCO Program, we therefore  
21 focused our efforts on identifying opportunities to reduce labor expenses within  
22 the Finance organization.

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1 Q. Please describe the main BCO cost reduction opportunities that you identified.

2 A. We identified opportunities to realign our organizational structure, streamline  
3 existing processes, and automate many manual functions. We undertook an  
4 assessment of the Financial Planning and Analysis (“FP&A”) department’s  
5 functions, including opportunities to reorganize the department to optimize its  
6 performance. This effort evaluated work functions and processes, organizational  
7 structure and resource capability, as well as the technology and systems employed  
8 by FP&A. Through this effort we were able to identify various improvements  
9 that would streamline FP&A, including the execution of more efficient and  
10 effective processes. For example, after analyzing the reports produced by FP&A,  
11 we were able to reduce the number of reports, as well as the effort required for  
12 management reporting on a weekly and monthly basis. We improved upon our  
13 forecasting process, by reducing forecasting time and effort by setting clearer  
14 process roles and responsibilities. We also eliminated redundant forecasting-  
15 related activities.

16 The Finance organization has also launched a project to implement Robotic  
17 Process Automation software capable of performing manual, routine tasks. Our  
18 initial scope includes the automation of setting up projects in our financial  
19 systems, processing transfers and corrections, sending hold receipt notifications,  
20 and reviewing the application of sales tax on Company purchases.

21 In addition, we engaged in an effort to review and rationalize the inventory of key  
22 controls that the Company audits and tracks pursuant to SOX requirements. This

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1 enabled our Auditing department to streamline its audit plan for 2019 and to focus  
2 on higher risk areas, thereby reducing the audit effort in the process.

3 Finance organization cost savings are expected to materialize through lower  
4 staffing requirements. For each BCO cost savings opportunity, we assessed the  
5 current employee effort required to complete the identified activities, then  
6 estimated the future employee effort that will be required upon the  
7 implementation of all our planned organizational, process, and technology  
8 improvements. We based the cost savings amount on the difference between the  
9 current and future number of employees, priced out at an average salary for the  
10 Finance organization.

11 Q. What challenges does the Finance organization face in implementing these  
12 changes and realizing their cost reduction opportunities?

13 A. Over the past several years, the Company's implementation of enterprise-wide  
14 systems -- such as PeopleSoft Human Resources and Payroll, Oracle Finance and  
15 Supply Chain, and PowerPlan Fixed Assets -- allowed us to reduce headcount in  
16 many areas of the Finance organization. Each incremental future headcount  
17 reduction requires relatively more effort and time to achieve.

18 Moreover, as discussed further in Section IV of this testimony, many BCO cost  
19 savings are tied to changes in how labor is organized and deployed and the timing  
20 of when the Finance organization will realize the associated cost savings is  
21 uncertain. Whether a cost reduction opportunity is tied to a change in  
22 organizational structure, process redesign, work elimination, or activity

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1 automation, the cost savings associated with each opportunity cannot be realized  
2 until the employees related to that opportunity have been redeployed in some  
3 manner. Positions must be available for these employees to be re-assigned to, and  
4 employees who are being re-assigned to other work likely need to be trained and  
5 transitioned prior to assuming their new positions. These factors will affect the  
6 timing of cost savings.

7 Q. Does this conclude your direct testimony?

8 A. Yes, it does.



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

2    Q.    Would each member of the Depreciation Panel please  
3           state their name and business address?

4    A.    My name is Matthew Kahn. My business address is 4  
5           Irving Place, New York, New York.

6           My name is Ned W. Allis. My business address is 207  
7           Senate Avenue, Camp Hill, Pennsylvania.

8    Q.    Mr. Kahn, by whom are you employed and in what  
9           capacity?

10   A.    I am employed by Consolidated Edison Company of New  
11          York, Inc. ("Con Edison" or the "Company") and, for  
12          Con Edison and its regulated affiliates, I manage the  
13          functions related to book and tax depreciation. I  
14          also support the income tax compliance and accounting  
15          functions for Con Edison and its regulated affiliates.

16   Q.    Mr. Kahn, please briefly outline your educational  
17          background and business experience.

18   A.    I graduated from Bentley College (now Bentley  
19          University) in 2004 with an undergraduate degree in  
20          accounting, and completed a master's degree in  
21          taxation at Bentley University in 2010. I have been  
22          employed by Con Edison since 2010. Prior to my  
23          employment at Con Edison, I worked in various roles  
24          within the accounting industry and in the field of

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1           taxation with PricewaterhouseCoopers, LLC, and  
2           subsequently as an analyst with American Tower  
3           Corporation. I am a member of the Society of  
4           Depreciation Professionals ("SDP").

5    Q.    Mr. Allis, by whom are you employed and in what  
6           capacity?

7    A.    I am employed by Gannett Fleming Valuation and Rate  
8           Consultants, LLC ("Gannett Fleming"), where I am Vice  
9           President. I am responsible for conducting  
10          depreciation, valuation and original cost studies,  
11          determining service life and salvage estimates,  
12          conducting field reviews, presenting recommended  
13          depreciation rates to clients, and supporting such  
14          rates before state and federal regulatory agencies. I  
15          am also responsible for Gannett Fleming's proprietary  
16          depreciation software, training of depreciation staff,  
17          and the development of solutions for technical issues  
18          related to depreciation.

19   Q.    Mr. Allis, please briefly outline your educational  
20          background and business experience.

21   A.    I have a Bachelor of Science degree in Mathematics  
22          from Lafayette College in Easton, PA. I am a member  
23          of the SDP and am the current president of SDP. I am  
24          certified as a depreciation expert by the SDP, which

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1 has established national standards for certification  
2 via an examination that I passed in September 2011. I  
3 was re-certified as a depreciation professional in  
4 March 2017.

5 I became employed by Gannett Fleming in October 2006  
6 as an Analyst. My duties included assembling basic  
7 data required for depreciation studies, conducting  
8 statistical analyses of service life and net salvage  
9 data, calculating annual and accrued depreciation, and  
10 assisting in preparing reports and testimony setting  
11 forth and defending the results of the studies. In  
12 March 2013, I was promoted to the position of  
13 Supervisor, Depreciation Studies. In March 2017, I was  
14 promoted to Project Manager, Depreciation and  
15 Technical Development. In January 2019, I was promoted  
16 to my current position of Vice President.

17 Q. Have any members of the Depreciation Panel previously  
18 testified before any utility commission on the subject  
19 of utility plant depreciation?

20 A. **(Kahn)** Yes. I have testified on the subjects of  
21 depreciation and income tax before the New York Public  
22 Service Commission ("Commission") on behalf of Con  
23 Edison and its affiliate, Orange and Rockland  
24 Utilities, Inc. ("O&R").

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1           **(Allis)** I have testified on the subject of  
2           depreciation before the Commission, the Florida Public  
3           Service Commission, the Nevada Public Utilities  
4           Commission, the District of Columbia Public Service  
5           Commission, the New Jersey Board of Public Utilities,  
6           the California Public Utilities Commission, the  
7           Connecticut Public Utilities Regulatory Authority, the  
8           Rhode Island Public Utilities Commission, and the  
9           Federal Energy Regulatory Commission ("FERC").

10    Q.    What is the purpose of your direct testimony in this  
11           proceeding?

12    A.    The Depreciation Panel's direct testimony:

- 13           •    Presents the depreciation study performed by  
14                    Gannett Fleming for the Company's electric, gas  
15                    and common plant;
- 16           •    Presents annual depreciation accruals based on  
17                    the Company's existing rates, as well as the  
18                    depreciation rates recommended in the  
19                    depreciation study;
- 20           •    Identifies the Accumulated Provision for  
21                    Depreciation recorded on the Company's books  
22                    ("book reserve") at December 31, 2017, the  
23                    computed reserve (also referred to as the  
24                    "theoretical reserve" or "calculated accrued

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1 depreciation") based on existing depreciation  
2 factors, and the computed reserve based on the  
3 recommended depreciation factors for electric,  
4 gas and common plant;and

- 5 • Discusses the reserve variations for the  
6 Company's electric and gas accounts and presents  
7 a recommendation for addressing the Company's  
8 electric and gas book depreciation reserve  
9 deficiencies.

10 Q. Is the Depreciation Panel sponsoring any exhibits in  
11 these proceedings?

12 A. Yes, the Depreciation Panel is sponsoring the  
13 following three exhibits, all of which were prepared  
14 under the Depreciation Panel's supervision and  
15 direction:

- 16 • Exhibit \_\_\_\_ (DP-1) entitled: "Consolidated Edison  
17 Company of New York, Inc., Depreciation Study,  
18 Electric, Gas and Common Plant as of December 31,  
19 2017" ("Depreciation Study");
- 20 • Exhibit \_\_\_\_ (DP-2) entitled: "Consolidated Edison  
21 Company of New York, Inc., Electric, Gas and  
22 Common Plant, Summary of Annual Depreciation  
23 Rates at December 31, 2017;" and

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- 1           • Exhibit \_\_\_\_ (DP-3) entitled: "Consolidated Edison  
2           Company of New York, Inc., Summary of the  
3           Computed Reserves for Depreciation at December  
4           31, 2017."

5 Q.   Are there any subjects addressed in the Depreciation  
6       Panel's testimony that are not, and should not be  
7       construed to be, testimony by all members of the  
8       Panel?

9 A.   Yes. The Company has taken various steps in this  
10      filing to mitigate the rate request, and one of those  
11      steps is to not request any changes to the Company's  
12      current depreciation rates. Additionally, the  
13      Company's proposed treatment of reserve deficiencies  
14      has also been moderated to mitigate the overall rate  
15      request. For purposes of the initial filing in these  
16      proceedings, the Company has considered these subjects  
17      to be within the sole purview of Company management as  
18      ratemaking approaches rather than depreciation study  
19      subjects. Mr. Allis and Gannett Fleming Valuation and  
20      Rate Consultants, LLC have no responsibility for the  
21      Company's decisions on these subjects as filed in  
22      these proceedings whether in testimony, discovery  
23      responses or pleadings of any nature and express no  
24      view on them.

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1 Q. Please summarize the Company's proposed changes to  
2 depreciation expense levels for the twelve months  
3 ending December 31, 2020 (the "Rate Year").

4 A. As detailed below, the Depreciation Study supports a  
5 \$133 million increase in electric depreciation expense  
6 and a \$41 million increase in gas depreciation expense  
7 for the Rate Year. However, in order to facilitate  
8 the resolution of the issues in these proceedings and  
9 mitigate the impact of the rate increases on  
10 customers, the Company's filing applies existing rates  
11 to establish the depreciation expense level in the  
12 Rate Year. In addition, the Company has reflected  
13 increases to the depreciation expense for electric and  
14 gas in the amounts of \$20 million, and \$8 million.

15 Q. Please describe the nature of the increases to  
16 depreciation expense.

17 A. These proposed increases reflect a \$20 million  
18 recovery of reserve deficiencies for electric and an  
19 \$8 million recovery of reserve deficiencies for gas.

20 Q. Are these proposed increases to address the reserve  
21 deficiencies consistent with the results of the  
22 depreciation study performed by the Company in this  
23 rate proceeding?



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- 1 A. No. The results of the depreciation study, which are  
2 more fully described below, would have resulted in  
3 greater increases to the depreciation expense in the  
4 Rate Year. However, in an effort to facilitate the  
5 resolution of the issues in these proceedings and  
6 mitigate the impact of the rate increases on  
7 customers, the Company's proposes to address only a  
8 portion of the reserve deficiencies for electric and  
9 gas.
- 10 Q. What is the Company's proposal for the electric  
11 reserve deficiency amortization?
- 12 A. For electric, the Company proposes to address in this  
13 rate filing only 4.5 percent of the deficiency, as  
14 calculated by the depreciation study, over a 20 year  
15 amortization. With this approach, the Company will  
16 recover approximately \$404 million of the reserve  
17 deficiency over a 20-year period (approximately \$20  
18 million annually) if there were no changes in future  
19 rate years.
- 20 Q. What is the Company's proposal for the gas reserve  
21 deficiency amortization?
- 22 A. For gas, the Company proposes to address in this rate  
23 filing only 9 percent of the deficiency, as calculated  
24 by the depreciation study, over a 20 year

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1 amortization. With this approach, the Company would  
2 recover approximately \$159 million of reserve  
3 deficiency over a 20-year period (approximately \$8  
4 million annually) if there were no changes in future  
5 rate years.

6 Q. Are these amounts replacing the amortizations of  
7 reserve deficiency previously approved by the  
8 Commission and reflected in the Company's electric and  
9 gas rates?

10 A. No. In the Company's current electric rate case (Case  
11 16-E-0060), the Commission approved annual  
12 amortizations in the amount of \$11.6 million for  
13 electric reserve deficiency and an additional \$3.8  
14 million specific to Hudson Avenue. The Company's  
15 proposed \$20 million amortization will be an  
16 incremental increase to these amounts. There is no  
17 current amortization of reserve deficiency for gas.

18

19 **II. DEPRECIATION STUDY**

20 Q. Please define the concept of depreciation.

21 A. Depreciation refers to the loss in service value not  
22 restored by current maintenance, incurred in  
23 connection with the consumption or prospective  
24 retirement of utility plant in the course of service

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1 from causes which are known to be in current operation  
2 and against which the Company is not protected by  
3 insurance. Among the causes to be given consideration  
4 under the Uniform System of Accounts are wear and  
5 tear, decay, and action of the elements, inadequacy,  
6 obsolescence, "changes in the art," changes in demand  
7 and the requirements of public authorities.

8 Q. Who performed the Depreciation Study?

9 A. The Depreciation Study was performed on behalf of the  
10 Company by Gannett Fleming under the direction of Mr.  
11 Allis.

12 Q. In preparing the Depreciation Study, did you follow  
13 generally accepted practices in the field of  
14 depreciation?

15 A. Yes.

16 Q. Are the methods and procedures used in the  
17 Depreciation Study consistent with the Company's past  
18 practices?

19 A. Yes. The methods and procedures used to calculate  
20 annual depreciation rates and accruals in the  
21 Depreciation Study are consistent with those employed  
22 in the Company's past depreciation studies, as well as  
23 depreciation studies presented by other utilities in  
24 rate proceedings before the Commission. The

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1 Depreciation Study used the straight line method and  
2 the broad group average service life procedure using  
3 the whole life technique. For mass property accounts,  
4 we used survivor curves to estimate service lives.  
5 The Company uses the life span method, in which  
6 survivor curves are truncated at the date of probable  
7 retirement, for the Company's electric production and  
8 gas liquefied natural gas ("LNG") plants. The Company  
9 used the life span method in the depreciation study it  
10 submitted in the Company's previous base rate cases  
11 and for the Company's current depreciation rates.

12 Q. Please describe the presentation of the Depreciation  
13 Study in your exhibits.

14 A. The Depreciation Study in Exhibit \_\_\_\_ (DP-1) is  
15 presented in nine parts. Part I, Introduction,  
16 presents the scope and basis for the Depreciation  
17 Study. Parts II through V include descriptions of the  
18 methods and procedures used for the estimation of  
19 survivor curves and net salvage, and the calculation  
20 of annual depreciation and the theoretical reserve.  
21 Part VI, Results of Study, presents a description of  
22 the results and a summary of the depreciation  
23 calculations. Parts VII through IX present graphs and  
24 tables relating to the service life analyses, the net

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1 salvage analyses and the detailed depreciation  
2 calculations.

3 The tables on pages VI-4 through VI-7 of Exhibit \_\_\_\_  
4 (DP-1) present, for each plant account or subaccount,  
5 the estimated survivor curve, the net salvage percent,  
6 the original cost of plant and the book depreciation  
7 reserve at December 31, 2017, and the calculated  
8 annual depreciation accrual and applicable  
9 depreciation rate. The section beginning on page VII-  
10 1 presents the results of the retirement rate analyses  
11 prepared as the historical bases for the average  
12 service life estimates. The section beginning on page  
13 VIII-1 presents the results of the net salvage  
14 analysis. The section beginning on page IX-1 presents  
15 the depreciation calculations related to surviving  
16 original plant cost as of December 31, 2017. We note  
17 that common plant is presented at 100% in this exhibit  
18 rather than at the allocated electric and gas levels.

19 Q. Please explain how Gannett Fleming performed the  
20 Depreciation Study.

21 A. The Depreciation Study used the straight line whole  
22 life method of depreciation, with the broad group  
23 average service life procedure. The annual  
24 depreciation rates and accruals recommended in the

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1 Depreciation Study are based on a method of  
2 depreciation accounting that seeks to distribute the  
3 service value (*i.e.*, original cost of plant assets  
4 plus estimated costs of removal less estimated salvage  
5 at the time of retirement) over the estimated useful  
6 life of each unit, or group of assets, in a systematic  
7 and rational manner.

8 Q. How did you determine the recommended annual  
9 depreciation accrual rates?

10 A. We first developed estimates of the average service  
11 life and net salvage factors that were determined for  
12 each depreciable group - that is, each plant account  
13 or subaccount identified as having similar  
14 characteristics. We then calculated the annual  
15 depreciation accrual rates using the applicable  
16 average service lives and net salvage factors.

17 Q. What part does the average service life play in the  
18 determination of depreciation rates?

19 A. The estimated average service life is the period  
20 (*i.e.*, number of years) over which the original cost  
21 of plant should be depreciated. For example, with an  
22 average service life of 25 years, using the whole life  
23 technique, annual depreciation is  $1/25^{\text{th}}$ , or 4%, of the

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1 original cost of the plant before taking into account  
2 the net salvage factor.

3 Q. What is the effect on annual depreciation expense of a  
4 change to an average service life?

5 A. The depreciation expense accrual varies inversely with  
6 the underlying average service life. All else equal,  
7 the longer the average service life, the lower the  
8 annual depreciation rate and therefore the lower the  
9 annual depreciation expense. Conversely, the shorter  
10 the average service life, the higher the annual  
11 depreciation rate, and therefore, the higher the  
12 annual depreciation expense.

13 Q. What part does net salvage play in the determination  
14 of depreciation rates?

15 A. Depreciation is intended to recover the full cost of  
16 the Company's assets over the period of time they are  
17 providing service. The full cost of an asset includes  
18 both the original cost when the asset was installed  
19 and the net salvage at the end of the asset's life.  
20 Thus, in addition to providing for recovery of the  
21 original cost of plant over its estimated average  
22 service life, annual depreciation rates include an  
23 estimated net salvage factor. The purpose of this  
24 estimated net salvage factor is to reflect, over the

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1 life of the plant, the expected gross salvage value of  
2 plant less the expected cost of removal upon  
3 retirement. With very few exceptions, most plant  
4 assets result in negative net salvage upon retirement  
5 with removal costs exceeding salvage value. Salvage  
6 and removal cost values are netted and expressed as a  
7 percentage of original cost of plant and included in  
8 the annual depreciation rate. As a result, and in  
9 accordance with basic depreciation principles and the  
10 Commission's Uniform System of Accounts, the service  
11 value of an asset, which is the original cost of the  
12 asset along with the expected net salvage value, is  
13 allocated evenly over the estimated useful life of the  
14 asset.

15 Q. Please describe the first phase of the Depreciation  
16 Study, in which you estimated the average service life  
17 and net salvage factor for each plant account or  
18 subaccount.

19 A. The average service life and net salvage study  
20 consisted of compiling historical data from records  
21 related to the Company's plant; analyzing these data  
22 to obtain historical trends of survivor  
23 characteristics; obtaining supplementary information  
24 from management and operating personnel concerning



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1 practices and plans as they relate to plant  
2 operations; making visits to various sites to view the  
3 physical condition of facilities; and interpreting  
4 these data and information along with the average  
5 service lives and net salvage factors used by other  
6 utility companies to form judgments of average service  
7 lives and net salvage factors applicable to the  
8 Company's plant and equipment.

9 Q. You mentioned that in preparing the Depreciation  
10 Study, members of the Depreciation Panel visited  
11 certain Company facilities. What is the significance  
12 of these visits?

13 A. Field reviews of property as part of the Depreciation  
14 Study were performed during December 2018. Field  
15 reviews were also conducted for the Company's previous  
16 depreciation study during November 2014 and October  
17 2015. Depreciation studies should not be limited only  
18 to statistical analysis or visual comparisons of  
19 smoothed survivor curves to the historical data  
20 because other factors also need to be considered.  
21 Informed judgment should be used for the process of  
22 fitting survivor curves to the historical data and  
23 estimating net salvage, and knowledge of the property  
24 studied forms an important component of this judgment.

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1 Field reviews, including discussions with operating  
2 and engineering personnel, are conducted to become  
3 familiar with Company operations and obtain an  
4 understanding of the function of the plant and  
5 information with respect to the reasons for past  
6 retirements and the expected future causes of  
7 retirements. This knowledge, as well as information  
8 from other discussions with management, was  
9 incorporated in the interpretation and extrapolation  
10 of the statistical analyses.

11 Q. What historical data did the Company analyze for the  
12 purpose of estimating survivor curves, from which  
13 average service lives are derived?

14 A. The Company analyzed accounting entries that record  
15 plant asset transactions during the period 1938  
16 through 2017. The transactions included additions,  
17 retirements, transfers and the related balances.

18 Q. What method did the Company use to analyze these data?

19 A. The Company used the retirement rate method. This is  
20 the most appropriate method when retirement data  
21 covering a long period of time is available because  
22 this method determines the average rates of retirement  
23 actually experienced by the Company during the period  
24 of time covered by the Depreciation Study. It is also

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1 the method the Company used in its past depreciation  
2 studies and is the predominant approach used in  
3 depreciation studies across the country when aged data  
4 is available.

5 Q. Please describe how the retirement rate method was  
6 used to analyze the Company's service life data.

7 A. The Company used the retirement rate method to analyze  
8 each different group of property (generally a  
9 particular plant account) in the study. For each  
10 property group, the Company used the retirement rate  
11 method to form life tables which, when plotted, shows  
12 an original survivor curve for that property group.  
13 Each original survivor curve represents the average  
14 survivor pattern experienced by the vintage groups  
15 during the experience band studied. The survivor  
16 patterns do not necessarily describe the life  
17 characteristics of the property group; therefore,  
18 interpretation of the original survivor curves is  
19 required in order to use them as valid considerations  
20 in estimating future average service lives. We used  
21 standard survivor curves, such as the Iowa-type  
22 survivor curves and the h-system of survivor curves,  
23 to perform these interpretations.

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1 Q. What is an "Iowa-type survivor curve" and how can such  
2 curves be used to estimate the average service life  
3 characteristics for each property group?

4 A. Iowa-type survivor curves are a widely-used group of  
5 survivor curves that contain the range of survivor  
6 characteristics usually experienced by utilities and  
7 other industrial companies. The Iowa-type survivor  
8 curves were developed at the Iowa State College  
9 Engineering Experiment Station through an extensive  
10 process of observing and classifying the ages at which  
11 various types of property used by utilities and other  
12 industrial companies had been retired.

13 Iowa-type curves are used to smooth and extrapolate  
14 original survivor curves determined by the retirement  
15 rate method. The Iowa-type curves can be used to  
16 describe the forecasted rates of retirement based on  
17 the observed rates of retirement and the outlook for  
18 future retirements.

19 The estimated survivor curve designations for each  
20 depreciable property group indicate the average  
21 service life, the family within the Iowa system to  
22 which the property group belongs, and the relative  
23 height of the mode.

24 Q. What is the mode?

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1 A. The mode describes the height of the frequency curve,  
2 which is a plotting of the percentage of assets  
3 retired in a given year. The lower the mode, the  
4 wider the dispersion pattern for the survivor curve  
5 (*i.e.*, a smaller percentage of retirements will occur  
6 at ages closer to the average service life). The  
7 higher the mode, the more narrow the dispersion  
8 pattern for the survivor curve (*i.e.*, a larger  
9 percentage of retirements will occur at ages closer to  
10 the average service life).

11 Q. Now that you have explained mode, please provide  
12 examples of what the designation means.

13 A. Iowa 50-R1.5 indicates an average service life of  
14 fifty years; a right-moded, or R, type curve (the mode  
15 occurs after average life for right-moded curves); and  
16 a relatively low height, 1.5, for the mode (possible  
17 modes for R type curves range from 0.5 to 5).

18 We more fully describe survivor curves in Part II of  
19 Exhibit \_\_\_\_ (DP-1).

20 Q. What is the "h-system" of survivor curves?

21 A. The h-system of survivor curves was developed in 1947  
22 by Bradford Kimball of the Commission. Similar to the  
23 Iowa curves, the h-curves are labeled in accordance  
24 with the relative height of the modes of the

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1 associated retirement frequency curves. Thus, for  
2 example a 50-h3.0 indicates a 50-year average service  
3 life and a mid-mode curve (modes for the h-system  
4 curves range from 0.0 to 5.0).

5 Q. What type of survivor curves did you use for the  
6 Depreciation Study?

7 A. For the Depreciation Study, we used Iowa type survivor  
8 curves. This represents a change from the h-type  
9 curves used in the Company's previous depreciation  
10 study. However, the Iowa curves are, to our  
11 knowledge, used in every U.S. jurisdiction, including  
12 in New York by O&R, Central Hudson Gas and Electric,  
13 Rochester Gas and Electric, New York State Electric  
14 and Gas, National Fuel Gas and Niagara Mohawk. In  
15 contrast, the h-curves, to our knowledge, are not used  
16 anywhere outside of New York. Further, the h-curves  
17 tend to have long "tails," meaning that these curves  
18 forecast that a portion of property will survive much  
19 longer than the average service life of a given  
20 depreciable group. These types of life  
21 characteristics are not common for most types of  
22 utility property. In part for this reason, the Iowa  
23 curves typically provide a more reasonable retirement  
24 dispersion pattern for most types of utility assets.

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1 Q. What approach did you use to estimate the lives of  
2 significant facilities such as production plants?

3 A. We used the life span method to estimate the lives of  
4 significant facilities for which concurrent retirement  
5 of the entire facility is anticipated. The life span  
6 method was used for electric production plants and the  
7 gas LNG facility. In this method, the survivor  
8 characteristics of such facilities are described by  
9 the use of interim survivor curves and estimated  
10 probable retirement dates.

11 The interim survivor curves describe the rate of  
12 retirement related to the replacement of elements of  
13 the facility, such as the retirements of piping,  
14 pumps, boiler tubes, and turbine blades that occur  
15 during the life of a facility such as a power plant.  
16 The probable retirement date provides the rate of  
17 final retirement for each year of installation for the  
18 facility by truncating the interim survivor curve for  
19 each installation year at its attained age at the date  
20 of probable retirement. The use of interim survivor  
21 curves truncated at the date of probable retirement  
22 provides a consistent method for estimating the lives  
23 of the multiple years of installation for a particular  
24 facility inasmuch as a single concurrent retirement

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1 for all years of installation will occur when it is  
2 retired.

3 Q. Has the Company previously used the life span method?

4 A. Yes. The Company used the life span method for the  
5 same facilities as in the Company's previous  
6 depreciation study. The life span method has been  
7 accepted by many public utility commissions across the  
8 United States and Canada, including the Commission.

9 Q. What are the bases for the probable retirement dates  
10 that you have estimated for each facility?

11 A. The bases for the probable retirement years are life  
12 spans for each facility, which are based on judgment  
13 that reflects consideration of the age, use, size,  
14 nature of construction, management outlook and typical  
15 life spans experienced and used by other utilities for  
16 similar facilities. For certain facilities, the life  
17 spans result in probable retirement years that are  
18 many years in the future. The retirements of these  
19 facilities are not yet subject to specific management  
20 plans, as such plans would be premature. At the  
21 appropriate time, detailed studies of the economics of  
22 rehabilitation and continued use or retirement of the  
23 facility may be performed and the results incorporated  
24 in the estimation of the facility's life span.



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1           However, in order to allocate the costs of these  
2           facilities properly, a probable retirement date must  
3           be estimated based on the information available today.

4    Q.    Are the recommended life spans similar to those the  
5           Company used in the depreciation study it submitted in  
6           its previous rate cases?

7    A.    Yes.  For electric steam production and gas LNG  
8           accounts, the recommended life spans are the same as  
9           those used in the previous depreciation study.  For  
10          electric other production accounts, the life spans  
11          have been modified somewhat to incorporate the current  
12          outlook for the Company's electric peaker generation  
13          facilities.

14   Q.    Is the life span method consistent with the whole life  
15          technique?

16   A.    Yes.  The life span method is a method of determining  
17          the average service life and dispersion pattern for  
18          each vintage of plant within a depreciable group.  
19          This method can therefore be used with either the  
20          whole life or the remaining life technique.  When  
21          using the life span method with the whole life  
22          technique, as is used in the Depreciation Study, the  
23          average service life is calculated for each vintage  
24          based on the estimated retirement date and interim

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1 survivor curve. The average service life is then used  
2 to calculate depreciation expense.

3 Q. Please provide an example of how the annual  
4 depreciation accrual rate for a particular plant  
5 account is presented in the Depreciation Study.

6 A. We will use electric plant Account 367, Underground  
7 Conductors and Devices, as an example because it is  
8 the largest depreciable account.

9 The Company used the retirement rate method to analyze  
10 the survivor characteristics of this property group.

11 Aged plant accounting data was compiled from 1938  
12 through 2017 and analyzed in periods that best  
13 represent the overall service life of this property.

14 The life tables for the 1938-2017 and 1978-2017  
15 experience bands are presented on pages VII-84 through  
16 VII-91 of Exhibit \_\_\_\_ (DP-1). The life tables display

17 the retirement and surviving ratios of the aged plant  
18 data exposed to retirement by age interval. For

19 example, page VII-84 shows \$60,901,042 retired at age  
20 0.5 years with \$7,078,876,479 having been exposed to

21 retirement. Consequently, the retirement ratio is  
22 0.0086 ( $\$60,901,042 / \$7,078,876,479$ ) and the survivor

23 ratio is 0.9914 ( $1 - 0.0086$ ). These life tables, or  
24 original survivor curves, are plotted along with the

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1 estimated smooth survivor curve, the 50-R0.5 on page  
2 VII-83.

3 The calculation of the annual depreciation accrual and  
4 the theoretical reserve related to the original cost  
5 of plant for Account 367 at December 31, 2017 is  
6 presented on pages IX-58 through IX-61. The  
7 calculations are based on the 50-R0.5 survivor curve  
8 and 90% negative net salvage factor, and the attained  
9 age for each vintage. The tabulation sets forth the  
10 installation year, the original cost, average service  
11 life, calculated annual depreciation rate and accrual,  
12 average remaining life, and calculated accrued  
13 depreciation factor and amount (that is, the  
14 theoretical reserve ratio and theoretical reserve).

15 The total annual accrual of \$240,270,815 and  
16 theoretical reserve of \$2,097,947,790 for the account  
17 are brought forward to the table on page VI-5. The  
18 reserve variation of negative \$864,053,940 shown on  
19 page VI-5 is calculated by subtracting the  
20 \$2,097,947,790 theoretical reserve from the book  
21 reserve for the amount of \$1,233,893,850. A negative  
22 variation indicates that there is a book reserve  
23 deficiency for this account.

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1 Q. Please describe how the Company determined the net  
2 salvage factors.

3 A. The Company determined the net salvage factors using  
4 informed judgment that considered relevant factors  
5 such as the results of historical net salvage  
6 analyses, the existing net salvage rates in effect,  
7 the Company's current practices with regard to net  
8 salvage and the net salvage factors used by other  
9 electric companies.

10 Q. Please describe the statistical net salvage analyses.

11 A. In the statistical net salvage analyses, net salvage  
12 is expressed as a percentage of the book cost of plant  
13 retired by calendar year. The analysis of historical  
14 net salvage as a percentage of the book cost of plant  
15 retired provides a statistical basis for the level of  
16 net salvage that can be expected to occur in the  
17 future. Thus, consistent with well-established  
18 industry practices, we have made estimates of net  
19 salvage expressed as a percentage of original plant  
20 cost retired that are based on informed judgment that  
21 incorporates the net salvage analyses.

22 Q. Are the net salvage analyses and approach you used to  
23 reflect net salvage in depreciation rates consistent  
24 with authoritative depreciation texts?

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- 1 A. Yes. The National Association of Regulatory Utility  
2 Commissioners' *Public Utility Depreciation Practices*  
3 ("NARUC") and Wolf and Fitch's *Depreciation Systems*  
4 ("Wolf and Fitch") are well-regarded texts that are  
5 considered to be authoritative depreciation sources by  
6 depreciation professionals. These texts describe the  
7 method of estimating net salvage and explain that  
8 expected net salvage at the time of retirement of  
9 plant assets is expressed as a percentage of original  
10 cost of the plant that will be retired and is  
11 estimated using the same methods we have employed.  
12 Moreover, the Commission's Uniform System of Accounts  
13 requires that the service value (*i.e.*, original cost  
14 less net salvage) of the Company's assets be allocated  
15 in a systematic and rational manner over the assets'  
16 service lives. The method of estimating net salvage  
17 we have used is consistent with this requirement.
- 18 Q. Are the methods the Company used in the Depreciation  
19 Study for the net salvage analyses widely accepted in  
20 the industry?
- 21 A. Yes. The net salvage analysis the Company used in the  
22 Depreciation Study is explained in authoritative texts  
23 on depreciation and is used almost exclusively in the  
24 utility industry. In the vast majority of

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1           jurisdictions, a portion of depreciation expense  
2           includes a provision for the prospective recovery of  
3           future net salvage over the service life of the  
4           underlying assets, and the net salvage factors are  
5           estimated using the same methods used in the  
6           Depreciation Study submitted by the Company in these  
7           proceedings. This is consistent with the Commission's  
8           Uniform System of Accounts, depreciation texts such as  
9           *Public Utility Depreciation Practices and Depreciation*  
10          *Systems* and ratemaking practices used by most state  
11          and federal regulatory commissions.

12          Although other approaches have been proposed in New  
13          York, the Commission has traditionally followed the  
14          predominant approach by including a net salvage factor  
15          in depreciation rates with the net salvage factor  
16          being based on the same methods as used in the  
17          Depreciation Study. This methodology achieves the  
18          objective of allocating the estimated net salvage  
19          value expected at the time of retirement of plant  
20          assets over the estimated useful lives of the assets  
21          in a systematic and rational manner.

22          **III. HISTORICAL TREATMENT OF RESERVE DEFICIENCIES**

23          Q. Please provide background information on depreciation  
24          reserve variations.

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1 A. In order to test the adequacy of the book reserve for  
2 depreciation, the Company compared the book reserve at  
3 year-end to a theoretical reserve calculated using  
4 average service lives, survivor curves and net salvage  
5 factors based on the Depreciation Study. The results  
6 of that comparison are summarized in Exhibit \_\_\_\_ (DP-  
7 3) and discussed later in this direct testimony. The  
8 variation between the book and theoretical reserves  
9 can be expressed both in total dollars and as a  
10 percentage of the theoretical reserve. Results of  
11 such a study can indicate either a positive variation  
12 (sometimes referred to as a "book reserve excess") or  
13 a negative variation (sometimes referred to as a "book  
14 reserve deficiency"). For example, a book reserve of  
15 \$190 and a theoretical reserve of \$200 would result in  
16 a book reserve deficiency of \$10, or 5%.

17 Q. What factors could lead to a book reserve deficiency?

18 A. The deficiency may be the result of historic  
19 depreciation rates set at a level lower than required  
20 to provide for the level of annual depreciation  
21 expense necessary to match actual experience. Reasons  
22 for "inadequate" depreciation rates can be average  
23 service lives that are too long to recover the plant  
24 at a fast enough rate, and thus do not allow for the

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1           timely recovery of the investment, or a negative net  
2           salvage component of the depreciation rate that does  
3           not provide an adequate level of recovery for removal  
4           costs. In addition to service lives and salvage  
5           factors, the actual dispersion of retirements (*i.e.*,  
6           when retirements occur in relation to average service  
7           lives) may have changed or varied from the historical  
8           pattern that led to the selection of the survivor  
9           curves being used.

10    Q.    Is it common to have a reserve variation?

11    A.    Yes. Service life and net salvage estimates can  
12           change over time, and these estimates are updated when  
13           a new study is performed. It is expected that there  
14           will be some variation between the book and  
15           theoretical reserves. However, because New York uses  
16           whole life rates, rather than remaining life  
17           depreciation rates (which automatically correct for  
18           any reserve variations), corrective action is often  
19           required. At a minimum, corrective action should be  
20           taken when the variation is large. In New York  
21           corrective action has typically been taken when the  
22           variation exceeds 10% of the theoretical reserve. The  
23           objective of depreciation is to allocate the cost of  
24           plant and the expected future costs to remove it over



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1 the time the plant is used to provide utility service.  
2 When that is accomplished, customers pay only for the  
3 cost of plant they have "consumed" when taking  
4 service. With a reserve deficiency, future customers  
5 will be required to pay for any historic shortfall in  
6 depreciation expense.

7 Q. Is there a book reserve deficiency related to the  
8 Company's electric, gas and common plant?

9 A. Yes. There is a reserve deficiency for electric, gas  
10 and common plant.

11 Q. Has the Commission previously taken action to address  
12 the large and persistent reserve deficiency for the  
13 Company's electric plant?

14 A. Yes, but only for a portion of the deficiency. In Case  
15 07-E-0523, due to concern about the potential size of  
16 the rate increase, the Commission, in its Order  
17 Establishing Rates for Electric Service (issued March  
18 25, 2008), stated (p. 75) it would "limit the recovery  
19 of the depreciation reserve deficiency to a 15-year  
20 amortization of \$162.5 million which is the amount in  
21 excess of the minus 10% level of the tolerance band  
22 that we have traditionally employed to measure the  
23 significance of reserve deficiencies." The Commission  
24 employed a similar approach in Case 09-E-0428 when an

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1 incremental amount of deficiency was again set for  
2 amortization and recovery as a result of the  
3 settlement of issues in that case.

4 The Company's most recent case that included a  
5 depreciation study (Case Nos. 16-E-0060 and 16-G-0061)  
6 resulted in a settlement. That settlement agreement  
7 resulted in an annual amortization of approximately  
8 \$11.6 million for electric service (plus an annual  
9 amortization of approximately \$3.8 million for the  
10 unrecovered costs of the Hudson Avenue Station). No  
11 amortization for gas service resulted from that  
12 settlement.

13 Q. What has been the result of the approach to the  
14 Company's reserve deficiencies that the Commission has  
15 adopted in previous proceedings?

16 A. Because the Company's reserve deficiencies have not  
17 been adequately addressed, they have continued to  
18 increase. Figures 1 and 2 below show the reserve  
19 deficiencies resulting from the three most recent  
20 depreciation studies (including the current study) and  
21 illustrate that the reserve deficiencies have grown  
22 significantly (*i.e.*, the reserve variations have  
23 become more negative) from 2011 to 2017. For electric  
24 service, the reserve deficiency has grown from

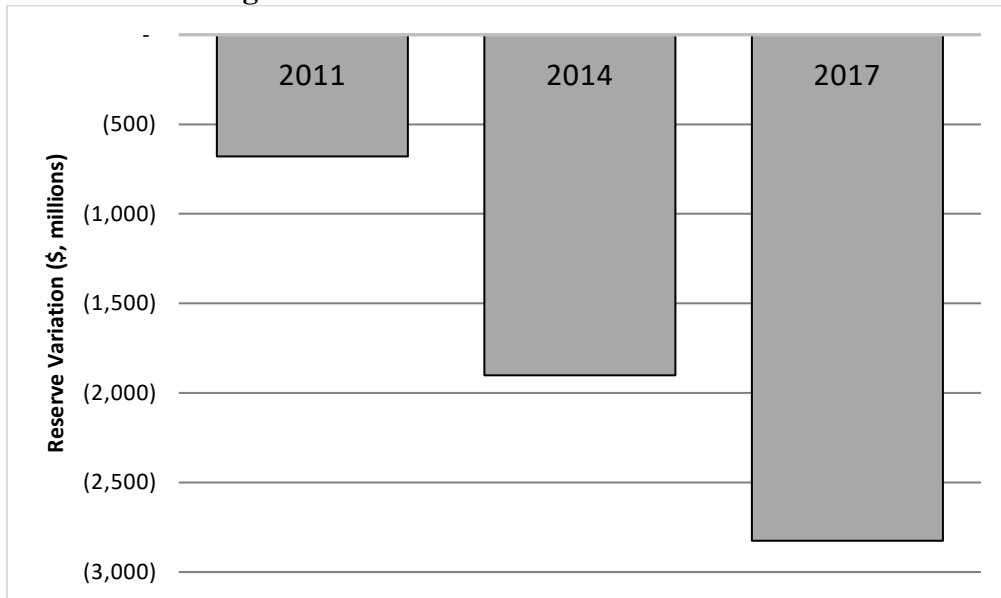
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1 approximately \$680 million to \$2.8 billion since 2011.  
2 For gas service, the reserve variation has changed  
3 from a \$92 million reserve "excess" to a \$380 million  
4 reserve deficiency over the same period. For both gas  
5 and electric service, the reserve deficiencies have  
6 grown as a percentage of the theoretical reserve, as  
7 well as in absolute dollar amounts.

8  
9

**Figure 1: Electric Plant Reserve Variations**



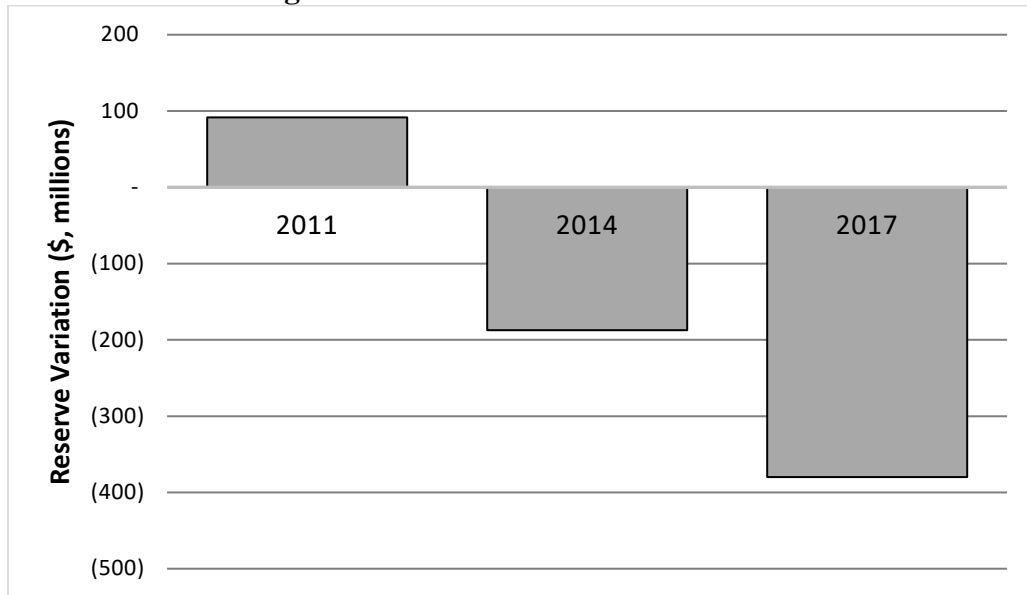
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1

**Figure 2: Gas Plant Reserve Variations**



2

3 Q. Given the growth in the reserve deficiencies for both  
4 electric and gas service, it is important that the  
5 Commission address reserve deficiencies?

6 A. Yes. It is important to keep in mind that because  
7 depreciation is largely an issue of the timing of cost  
8 recovery , deferring the recovery of reserve  
9 deficiencies does not reduce rates in the long run.  
10 Rather, by pushing costs out into the future,  
11 depreciation deferrals increase costs in the long run.  
12 This is both because more costs need to be recovered  
13 through depreciation or amortization of reserve  
14 deficiencies in the future. In addition, because  
15 accumulated depreciation is a reduction to rate base,  
16 customers pay a return on any reserve deficiencies,

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1 which is an increase to cost in both the short and  
2 long run.

3 Based in part on these concepts, we recommend  
4 addressing reserve deficiencies over the remaining  
5 lives of the Company's assets. Our recommendation for  
6 addressing the reserve deficiencies will be discussed  
7 in more detail in the next section.

8 **IV. TEST OF THE BOOK RESERVES**

9 Q. Have you compared the book and theoretical reserves as  
10 part of your analyses for this proceeding?

11 A. Yes. Using data as of December 31, 2017 we determined  
12 that a large electric plant book reserve deficiency,  
13 which has been persistent for the last 15 years, has  
14 grown. The Depreciation Study also estimates that gas  
15 and common plant have reserve deficiencies.

16 Q. Please describe the results of your analyses comparing  
17 the book reserves and theoretical reserves.

18 A. For each type of plant there is a book reserve  
19 deficiency because the accumulated depreciation  
20 reserve per books for each service is less than the  
21 related theoretical reserve.

22 As shown on Exhibit \_\_\_\_ (DP-3), as of December 31,  
23 2017, at existing depreciation rates, the total  
24 reserve deficiency for electric plant is approximately

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1       \$1,145.9 million and the reserve deficiency for gas  
2       plant is approximately \$90.9 million. Common plant at  
3       existing depreciation rates indicates a reserve excess  
4       of \$34.1 million. Those amounts may also be expressed  
5       as a percentage of the theoretical reserves and equate  
6       to book reserve deficiencies of 15.71% and 6.06% for  
7       electric and gas plant, respectively.

8    Q.    In your judgment, does the reserve deficiency based on  
9       existing depreciation rates reasonably reflect the  
10       magnitude of the existing deficiency?

11   A.    No. Based on the results of the Depreciation Study,  
12       we find the deficiency as calculated on that basis to  
13       be understated for all types of plant. The  
14       Depreciation Study shows that the total book reserve  
15       deficiency for electric plant is approximately  
16       \$2,824.4 million, the total book reserve deficiency  
17       for gas plant is approximately \$380.7 million, and the  
18       total book reserve deficiency for common plant is  
19       approximately \$60.3 million as of December 31, 2017.  
20       Expressed as a percentage of the theoretical reserves,  
21       the variations equate to book reserve deficiencies of  
22       31.47%, 21.23%, and 7.42% for electric, gas, and  
23       common plant, respectively. We note that the reserve  
24       deficiency for electric plant includes approximately

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1           \$72.8 of unrecovered costs for Hudson Avenue, which  
2           are recovered through a separate amortization of \$3.8  
3           million per year.

4    Q.    What does the Depreciation Study show are the major  
5           drivers of the reserve deficiency being higher than  
6           that which would be calculated using currently  
7           effective depreciation rates?

8    A.    The drivers of the increase in the reserve deficiency  
9           are service lives, survivor curves and net salvage  
10           factors that that differ from those adopted in Cases  
11           16-E-0060 and 16-G-0061. The Depreciation Study  
12           demonstrates the need for higher negative net salvage  
13           factors for many of the Company's electric and gas  
14           plant accounts. A higher negative net salvage factor  
15           results in a higher theoretical reserve and,  
16           consequently, a greater reserve deficiency. In  
17           addition, our analyses of the data indicate that for  
18           many accounts, changes toward shorter average service  
19           lives, appropriate Iowa curves, or a combination of  
20           both, are appropriate. Many of these changes result  
21           in a higher reserve deficiency.

22   Q.    Would continuing the current depreciation factors,  
23           rather than revising them in order to reduce the

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1 electric and gas book reserve deficiencies, be an  
2 appropriate approach?

3 A. No. As we have explained earlier in our testimony,  
4 there are certain accounting and ratemaking objectives  
5 associated with establishing depreciation factors. In  
6 order to meet these objectives, depreciation factors  
7 should be updated to incorporate the results of the  
8 most recent depreciation study. Reserve imbalances  
9 need to be corrected based on rates that appropriately  
10 allow for full recovery while the underlying assets  
11 are providing utility service. The failure to make  
12 such corrections leads to intergenerational inequity  
13 by causing customers in the future to pay for assets  
14 being consumed by current customers.

15 Q. What do you conclude as a result of your depreciation  
16 reserve analyses?

17 A. These analyses indicate that a more effective approach  
18 to addressing the book reserve deficiency is needed.  
19 As indicated earlier, the Commission has previously  
20 recognized and taken steps to address the persistent  
21 depreciation reserve deficiency by providing for  
22 limited recovery over a relatively short time period.  
23 A long-term solution is required in order to first  
24 relieve the Company of the burden of carrying costs



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1 that should have been recovered in the past and  
2 relieving customers of the burden of paying carrying  
3 costs on the unrecovered costs that remain in rate  
4 base. The sooner that first step is accomplished the  
5 better for future customers. After fully addressing  
6 the recovery of the existing deficiency, a second step  
7 to remediate the potential for additional future  
8 deficiencies will be for the Company to propose  
9 depreciation rates under a remaining life technique in  
10 a future base rate proceeding, rather than continuing  
11 to use a method based on the whole life technique.  
12 The remaining life technique is used by the majority  
13 of jurisdictions in the United States. Under the  
14 remaining life technique, any reserve variation is  
15 effectively amortized automatically over the remaining  
16 life of each depreciable group. Such a practice  
17 avoids determining reserve variations each year  
18 because the applied depreciation rate trues-up annual  
19 depreciation expense for unrecovered costs (unlike the  
20 whole life technique).

21 Q. Please summarize the Panel's recommendation regarding  
22 the book reserve deficiencies in these proceedings.

23 A. The Company's Depreciation Study recommends that the  
24 reserve deficiency of \$2,751.6 million for electric

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1 plant exclusive of Hudson Avenue (*i.e.*, the \$2,824.4  
2 million reserve deficiency less the \$72.8 million  
3 reserve deficiency for Hudson Avenue) be amortized  
4 over the remaining life of electric plant (*i.e.*, 41.9  
5 years). For gas plant, the Depreciation Study  
6 recommends that the reserve deficiency of \$379.7  
7 million be recovered over the remaining life of gas  
8 plant (*i.e.*, 58.3 years). The recommendation for  
9 common plant is that the Commission take no remedial  
10 action addressing the reserve deficiency at this time  
11 because the amount of the deficiency is within the 10%  
12 range of variation that has been considered acceptable  
13 and reasonable in New York.

14 Q. Is it common to amortize a book reserve deficiency  
15 over the plant's remaining life?

16 A. Yes. The remaining life amortization period is one of  
17 the generally accepted approaches to addressing a book  
18 reserve deficiency.

19 **VI. CONCLUSION**

20 Q. Please summarize the depreciation results.

21 A. The depreciation rate changes are summarized on Exhibit  
22 \_\_\_\_ (DP-2) and Exhibit \_\_\_\_ (DP-3). In addition, the  
23 study and our discussion above indicates that an  
24 additional \$65.67 million, and \$6.51 million would be

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1           necessary to provide for annual amortizations of the  
2           electric and gas reserve deficiencies.

3    Q.    Are these results reflected in the Company's proposed  
4           depreciation expense levels for the Rate Year?

5    A.    No.  As discussed in Section I above, in order to  
6           facilitate the resolution of the issues in these  
7           proceedings and mitigate the impact of the proposed  
8           rates on customers, the Company's filing reflects  
9           existing depreciation rates and a further \$20 million  
10          recovery of reserve deficiencies for electric and an  
11          \$8 million recovery of reserve deficiencies for gas.

12   Q.    Does this conclude your direct testimony?

13   A.    Yes, it does.

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I. INTRODUCTION AND PURPOSE

1 Q. Would the members of the Income Tax Panel ("Panel") please  
2 state their names and business addresses?

3 A. Jeffrey Kalata and my business address is 4 Irving Place,  
4 New York, New York.

5 Matthew Kahn and my business address is 4 Irving Place,  
6 New York, New York.

7 Michael Rufino and my business address is 4 Irving Place,  
8 New York, New York.

9 Q. By who are you employed, in what capacity and what are  
10 your professional backgrounds and qualifications?

11 **(Kalata)** We are employed by Consolidated Edison Company of  
12 New York, Inc. ("Con Edison" or the "Company"). I am the  
13 Vice President of Tax at Con Edison.

14 I have a Bachelor of Science degree in Business  
15 Administration with a concentration in accounting from  
16 Bowling Green State University. I joined Coopers &  
17 Lybrand LLC in 1986 and held a number of financial and  
18 audit positions before leaving as Senior Manager of  
19 Business Assurance in 1997 to serve as Group Accounting  
20 Manager for North American Refractories Co. with  
21 responsibilities for all financial reporting, accounting

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1 and tax functions. I joined FirstEnergy Corp.  
2 ("FirstEnergy") and was elected Assistant Controller in  
3 October 1999. At FirstEnergy, I had responsibilities for  
4 various accounting areas (accounts payable, payroll,  
5 property accounting and budgeting/planning), and was  
6 responsible for oversight of the external financial  
7 reporting and accounting research activities for  
8 FirstEnergy and its subsidiaries. In 2007, I transferred  
9 to FirstEnergy's tax department as Director, Tax, to head  
10 the tax accounting function over income taxes and general  
11 taxes. In 2013, I joined Con Edison's tax department as  
12 Director, Tax, and directed activities over the income tax  
13 accounting and compliance groups, as well as the book and  
14 tax depreciation groups. I was elected Vice President of  
15 Tax in December 2018.

16 I have testified as an expert witness in utility rate  
17 cases in Ohio and assisted in the preparation of rate  
18 cases in New York, Pennsylvania, New Jersey and West  
19 Virginia. I took an active role in Con Edison's  
20 implementation of the provisions of the Federal Tax Cuts  
21 and Job Act of 2017 ("TCJA"), particularly relating to the  
22 New York Public Service Commission's ("Commission")

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1 proceeding to consider the impact of the TCJA on the tax  
2 liabilities of New York's utilities.<sup>1</sup> I am an active  
3 member of the Edison Electric Institute's Taxation  
4 Committee and American Gas Association Taxation Committee.  
5 I am a Certified Public Accountant in the State of Ohio  
6 and a member of the American Institute of Certified Public  
7 Accountants, the Ohio Society of Certified Public  
8 Accountants and Chartered Global Management Accountants.

9 **(Kahn)** I am a Section Manager in the Tax Department at Con  
10 Edison, with responsibility for the book and tax  
11 depreciation functions. I graduated from Bentley College  
12 (now Bentley University) in 2004 with an undergraduate  
13 degree in accounting and completed a master's degree in  
14 taxation at Bentley University in 2010. I have been  
15 employed by Con Edison since 2010. Prior to my employment  
16 at Con Edison, I worked in various roles within the  
17 accounting industry and in the field of taxation with  
18 PricewaterhouseCoopers, LLC ("PWC"), and subsequently as  
19 an analyst with American Tower Corporation. I am a member  
20 of the Edison Electric Institute's Taxation Committee,

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<sup>1</sup> Case 17-M-0815, *Proceeding on Motion of the Commission on Changes in Law that May Affect Rates* ("Case 17-M-0815").

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1 American Gas Association Taxation Committee and the  
2 Society of Depreciation Professionals.

3 I have testified as an expert witness in utility rate  
4 cases in New York and New Jersey. In addition, I have  
5 actively participated on behalf of Con Edison in Case 17-  
6 M-0815.

7 **(Rufino)** I am the Department Manager for the Company's  
8 Income Tax Accounting group and have been since 2014. I  
9 have a Bachelor of Science degree in Business  
10 Administration with a concentration in accounting from  
11 Pace University and am pursuing a master's degree in  
12 taxation from Rutgers University. I have been employed by  
13 Con Edison since 2011 and am responsible for all income  
14 tax accounting matters, including monthly and quarterly  
15 tax provisions and financial reporting, for Consolidated  
16 Edison, Inc. ("CEI") and its regulated subsidiaries  
17 (including Con Edison). Prior to joining Con Edison, I  
18 held various positions in the income tax and financial  
19 accounting sections at PWC, Plainfield Asset Management,  
20 and Deloitte.

21 Q. What is the purpose of your direct testimony in these  
22 proceedings?



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- 1 A. The Panel's direct testimony:
- 2 1. Discusses the proposed mechanisms the Company is  
3 employing/will employ to refund the 2018-19  
4 transition period regulatory liabilities resulting  
5 from the TCJA to its electric and gas customers.
- 6 2. Discusses the proposed mechanisms, as well as the  
7 appropriate time period, the Company will employ to  
8 refund excess deferred Federal income taxes ("EDFIT")  
9 resulting from the TCJA to its electric and gas  
10 customers.
- 11 3. Discusses the potential changes that would impact the  
12 amount of EDFIT the Company will refund to its  
13 electric and gas customers.
- 14 4. Discusses the potential impact of bonus depreciation  
15 included in the Department of Treasury's proposed  
16 regulations that may require an adjustment to the  
17 Company's electric and gas rate filings.
- 18 5. Provides a basis for the amount of the Research &  
19 Development ("R&D") tax credit that the Company is  
20 refunding to its electric and gas customers in the  
21 Rate Year (*i.e.*, January 1 through December 31,  
22 2020).

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1           6. Discusses the Company's historical income tax  
2           accounting for Cost of Removal ("COR") and the  
3           current Commission proceeding addressing that topic.<sup>2</sup>  
4

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<sup>2</sup> Case 18-M-0013, *In the Matter of a Focused Operations Audit to Investigate the Income Tax Accounting of Certain New York State Utilities* ("COR Audit Proceeding").

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**II. TRANSITION PERIOD**

1 Q. Please discuss the Company's transition period regulatory  
2 liability resulting from the TCJA's reduction in the  
3 Federal income tax rate from 35 percent to 21 percent.

4 A. This reduction in the Federal income tax rate became  
5 effective as of January 1, 2018. The terms of the  
6 Company's current Commission-approved electric and gas  
7 rate plans extend through December 31, 2019. In its Order  
8 issued August 9, 2018,<sup>3</sup> the Commission directed how the  
9 Company should recognize the net benefits realized in  
10 calendar years 2018 and 2019 due to the TCJA's reduction  
11 in the Federal income tax rate. For the Company's  
12 electric business, the Commission directed the Company to  
13 continue to defer the net benefits realized in calendar  
14 year 2018 ("2018 Electric Benefits"). The 2018 Electric  
15 Benefits will be used to help offset projected deferral  
16 costs and cost increases that will be addressed in this  
17 electric rate case. The Commission did order the Company  
18 to provide customers with the net benefits realized in  
19 calendar year 2019 by means of a sur-credit to commence on  
20 January 1, 2019.

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<sup>3</sup> Case 17-M-0815, Order Determining Rate Treatment of Tax Changes (issued August 9, 2018) ("August 2018 Order")(pp. 42-44)

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1 As for the Company's gas business, in the August 2018  
2 Order, the Commission directed the Company to provide  
3 customers with the net benefits realized in calendar years  
4 2018 and 2019 by means of a sur-credit to commence on  
5 January 1, 2019.

6 Q. What does the Company propose regarding 2018 Electric  
7 Benefits that it is currently deferring?

8 A. The Company proposes to refund the 2018 Electric Benefits  
9 to its electric customers by means of a straight-line  
10 amortization over a three-year period, commencing at the  
11 beginning of the Rate Year. This is consistent with the  
12 amortization period ordered by the Commission for the pass  
13 back of net benefits realized in 2018 for gas.

**III. EXCESS DEFERRED FEDERAL INCOME TAX ("EDFIT")**

14 Q. Please explain the impact of the TCJA on the Company's  
15 accumulated deferred income tax balances.

16 A. Deferred income taxes result from normalization accounting  
17 for book and tax timing differences. The majority of  
18 deferred tax balances on the Company's balance sheet are  
19 associated with its investment in plant. The difference  
20 between the federal income tax expense recorded for  
21 financial purposes and the actual current tax payable in

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1 any one year is deferred federal income tax ("DFIT"), that  
2 accumulates as a liability known as accumulated deferred  
3 Federal income tax liability ("ADFIT"). The TCJA's  
4 reduction of the corporate federal income tax rate from 35  
5 percent to 21 percent results in EDFIT. Specifically,  
6 EDFIT represents the difference in the amounts the Company  
7 collected from its customers at a 35 percent tax rate to  
8 pay future income taxes, and the Company's future tax  
9 liabilities at a 21 percent tax rate.

10 Q. Did the Commission's August 2018 Order address the  
11 Company's refunding of EDFIT to its customers?

12 A. Yes. The Commission recognized that deferred Federal  
13 income taxes are included in the income tax component of  
14 the Company's electric and gas cost of service.  
15 Accordingly, as a result of the TCJA, EDFIT will result in  
16 a net regulatory liability that must be refunded to both  
17 the Company's electric and gas customers. In the August  
18 2018 Order (p. 43), the Commission allowed the Company to  
19 continue to defer both the protected EDFIT balances and  
20 the unprotected EDFIT balances for its electric business.  
21 The Commission ordered the Company to address in its next

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1 electric base rate case (*i.e.*, this proceeding) how its  
2 EDFIT balances will be refunded to its electric customers.  
3 For its gas business, the Commission directed that the  
4 January 1, 2019 sur-credit include an amortization of the  
5 protected and unprotected excess EDFIT balances over the  
6 life of the plant assets. The Order notes that in the  
7 next gas rate case (*i.e.*, this proceeding), an alternative  
8 amortization period for the remaining unprotected balances  
9 may be determined to be appropriate.

10 Q. How does the Company propose to refund its unprotected  
11 EDFIT balances to its electric and gas customers?

12 A. The Company proposes to refund the unprotected EDFIT  
13 balances to its electric and gas customers over a five-  
14 year amortization period, commencing at the beginning of  
15 the Rate Year. The five-year straight-line amortization  
16 period is the same time period over which the Company  
17 proposes to recover deferred costs in this proceeding,  
18 *i.e.*, the Company proposes to use the period for debits  
19 and credits. For the gas service, this is a change (as  
20 allowed by the August 2018 Order) to accelerate the  
21 amortization of the unprotected EDFIT balance to  
22 customers.

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1 Q. How does the Company propose to refund its protected EDFIT  
2 balances to its electric and gas customers?

3 A. The Company will employ the Average Rate Assumption Method  
4 ("ARAM") to refund the protected EDFIT balances over the  
5 remaining lives of the plant assets, in accordance with  
6 the normalization rules under Internal Revenue Code  
7 ("IRC") §168(f).

**IV. EDFIT BALANCES**

8 Q. Please describe the nature of any potential changes that  
9 would impact the EDFIT balances to be refunded to the  
10 Company's electric and gas customers.

11 A. As noted above, there are two components of the EDFIT  
12 balances to be refunded to the Company's electric and gas  
13 customers - protected and unprotected EDFIT balances. The  
14 Company originally based both protected and unprotected  
15 EDFIT balances on the 2017 year-end income tax provision  
16 estimates, which were trued-up to actual upon the filing  
17 of the Company's 2017 Federal income tax return.  
18 Protected EDFIT balances are subject to the normalization  
19 rules under the IRC and are required to be refunded to  
20 customers over the remaining life of the plant assets.  
21 These balances are reversing subject to ARAM rates. The

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1           annual reversal of protected EDFIT balances will be  
2           updated every time that the Company calculates its  
3           deferred taxes associated with its investment in plant.  
4           Generally, the Company updates these amounts quarterly in  
5           calculating the provision for Federal income tax expense.  
6           Unprotected EDFIT balances may be refunded over a shorter  
7           period. As noted above, the Company proposes that they be  
8           returned to electric and gas customers over a five-year  
9           period commencing at the beginning of the Rate Year.

10   Q.    Has the Company prepared supporting documentation for the  
11           current balances of EDFIT that will be refunded to its  
12           electric and gas customers?

13   A.    Yes. Please see Exhibit ITP-1, which contains the  
14           original Day 1 amounts recorded in the 2017 year-end  
15           accrual for income tax along with return-to-provision  
16           adjustments subsequently recorded in connection with the  
17           Company's filing of its 2017 Federal income tax return in  
18           October 2018.

19   Q.    Will the unamortized protected and unprotected plant EDFIT  
20           balances reduce the Company's electric and gas rate base  
21           amounts?

22   A.    Yes.



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1 Q. Are there additional events that may affect the EDFIT  
2 balances the Company will refund to its electric and gas  
3 customers?

4 A. Yes. The Internal Revenue Service ("IRS") has not  
5 completed its examination of Con Edison's 2017 Federal  
6 income tax return, and the Treasury Department has not yet  
7 finalized its proposed regulations on first-year  
8 depreciation related to the TCJA. Any potential post-  
9 filing adjustments to this tax return by the IRS, as well  
10 as the provisions of the Treasury Department's final  
11 regulations, could affect Con Edison's protected and  
12 unprotected EDFIT balances.

13

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**V. BONUS DEPRECIATION**

1 Q. Please discuss how the Company addresses the issue of  
2 bonus depreciation in its electric and gas rate filings.

3 A. The Company's current balances of accumulated deferred  
4 income taxes are based on the Treasury Department's  
5 proposed regulations issued in August 2018 pertaining to  
6 bonus depreciation for utility companies in the fourth  
7 quarter of 2017, as well as the transition rules in tax  
8 years 2018 and 2019. Under these proposed regulations,  
9 utility companies are entitled to bonus depreciation for  
10 qualifying additions that were originally under contract  
11 prior to September 27, 2017 and placed into service during  
12 the 2018 and 2019 tax years. In applying the proposed  
13 regulations to the calculation of tax depreciation and  
14 associated deferred income taxes, the Company has computed  
15 estimated amounts of bonus depreciation for both 2018 and  
16 2019. This additional tax depreciation increases the  
17 balance of accumulated deferred income taxes, and  
18 therefore, reduces rate base in the Rate Year.

19 Q. How much additional deferred income tax has the Company  
20 included in the Rate Year, due to the inclusion of bonus  
21 depreciation for years 2018 and 2019?

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1 A. The Company has calculated estimated bonus depreciation in  
2 the amount of \$330 million for 2018 and \$50 million for  
3 2019. Of these amounts, the electric service's  
4 depreciation deduction is estimated to be \$179 million in  
5 2018 and \$38 million in 2019. This results in additional  
6 accumulated electric deferred income taxes of \$38 million  
7 in 2018, and \$8 million in 2019. The gas service's  
8 depreciation deduction is estimated to be \$151 million in  
9 2018 and \$12 million in 2019. This results in additional  
10 gas accumulated deferred income taxes of \$32 million in  
11 2018 and \$2.5 million in 2019.

12 Q. Has the Company prepared supporting documentation for the  
13 calculations of estimated bonus depreciation specific to  
14 electric and gas?

15 A. Yes. Please see Exhibit ITP-2.

16 Q. What impact would the Treasury Department's final  
17 regulations have on these amounts of deferred income  
18 taxes?

19 A. In the event that prior to a final Commission rate order  
20 in these proceedings, the Treasury Department issues final  
21 regulations that affect the Company's estimated amounts of  
22 bonus depreciation, if practicable, the Company will

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1 update its rate filing to reflect the impact of the final  
2 regulations. If the Treasury Department does not issue  
3 final regulations in time to be reflected in the  
4 Commission's final rate order in these proceedings, the  
5 Company will continue to accrue a carrying charge (*i.e.*,  
6 income) on the difference in accumulated deferred federal  
7 income taxes as a result of any change in final Treasury  
8 regulations.

**VI. R&D TAX CREDIT**

9 Q. How does the Company establish the amount of the income  
10 tax reserve for uncertain tax positions related to the R&D  
11 tax credit?

12 A. The Company establishes the reserve for uncertain tax  
13 positions related to the R&D tax credit in the same manner  
14 that it establishes income tax reserves for other  
15 uncertain tax positions. The Company establishes the  
16 amount of this reserve through an exercise of professional  
17 judgment, made in collaboration with its experienced  
18 service provider (*i.e.*, KPMG), which reflects the  
19 guidelines of ASC 740, as well as the Company's past  
20 experience in negotiating and settling with the IRS.

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1 Q. Is the Company's income tax reserve for the R&D tax credit  
2 subject to reconciliation?

3 A. No. The Company establishes its income tax reserve for the  
4 R&D tax credit each year based on the Company's judgment  
5 in accordance with ASC 740-10-25-7 accounting principles.  
6 Upon resolution with the IRS, the Company will reverse its  
7 income tax reserve and adjust the R&D tax credit, as  
8 appropriate.

9 Q. What provision of the IRC governs R&D Tax Credit claims?

10 A. The Company files its claims for R&D tax credits under  
11 Section 41 of the IRC.

12 Q. In its rate filings, did the Company include in its  
13 calculation of Federal income tax expense an amount of tax  
14 credits associated with its investment in qualified R&D  
15 activities, as provided for under IRC section 41?

16 A. Yes. Please see Exhibit ITP-3. The Company has calculated  
17 an estimated amount of R&D tax credit and has reduced its  
18 Federal income tax expense in the Rate Year by this  
19 estimated tax credit.

20 Q. Please explain how the Company has calculated the  
21 estimated R&D tax credit.

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1 A. The Company used an historical five-year period (*i.e.*,  
2 2012 - 2016) of actual data to serve as an estimate for  
3 the Rate Year because there is too much uncertainty  
4 associated with a forecast. The Company performed this  
5 calculation for both its electric and gas lines of  
6 service.

7 Q. What amount does the Company propose to impute as a  
8 Federal income tax credit?

9 A. Based on a five-year average of actual R&D income tax  
10 credits, the Company proposes to include a Federal income  
11 tax credit of \$2.5 million for electric and \$0.6 million  
12 for gas in the Rate Year.

**VII. INCOME TAX ACCOUNTING FOR REMOVAL COSTS**

13 Q. What is the status of the Commission's COR Audit  
14 Proceeding relating to the Company's historical income tax  
15 accounting with respect to COR?

16 A. On January 11, 2018, in the COR Audit Proceeding, the  
17 Commission issued an order approving the issuance of a  
18 request for proposals seeking a third-party to conduct a  
19 focused operations audit to investigate the income tax  
20 accounting relating to COR of the Company, its affiliate,  
21 Orange and Rockland Utilities, Inc., and other New York

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1 State utilities ("COR Audit"). Specifically, the COR  
2 Audit focuses on determining whether errors in income tax  
3 accounting occurred with respect to COR and whether the  
4 Company's customers received the benefit of the lower  
5 income tax expenses in rates as a result of the claimed  
6 errors. The Company will reflect any findings agreed to  
7 by the Company and Staff or ordered by the Commission in  
8 an appropriate submission depending upon the timing of the  
9 resolution.

10 Q. Does this conclude your direct testimony?

11 A. Yes, it does.