

BEFORE THE
STATE OF NEW YORK
PUBLIC SERVICE COMMISSION

In the Matter of

Niagara Mohawk Power Corporation d/b/a National Grid

Cases 17-E-0238 and 17-G-0239

August 2017

Prepared Testimony of:

Staff Gas Business Enablement
Panel

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1 **Introductions and Qualifications**

2 Q. Members of the Staff Gas Business Enablement
3 Panel, please state your names, employer and
4 business address.

5 A. Our names are Aric Rider, Allison Manz, Andrew
6 Timbrook and Michael Augstell. We are employed
7 by the Department of Public Service (Department)
8 and our business address is three Empire State
9 Plaza, Albany, New York 12223.

10 Q. Mr. Rider, are you the same Aric Rider who is
11 testifying as part of the Staff Policy Panel in
12 these proceedings?

13 A. Yes. I provide my credentials in that
14 testimony.

15 Q. Ms. Manz, are you the same Allison Manz who is
16 testifying as part of the Staff Policy Panel in
17 these proceedings?

18 A. Yes. I provide my credentials in that
19 testimony.

20 Q. Mr. Timbrook, are you the same Andrew Timbrook
21 who is testifying as part of the Staff
22 Information Systems Panel in these proceedings?

23 A. Yes. I provide my credentials in that
24 testimony.

1 Q. Mr. Augstell, are you the same Michael Augstell
2 who is testifying as part of the Staff Policy
3 Panel in these proceedings?

4 A. Yes. I provide my credentials in that
5 testimony.

6 **Scope of Testimony**

7 Q. What is the purpose of your testimony in this
8 proceeding?

9 A. We will explain our findings and recommendations
10 concerning the Gas Business Enablement (GBE)
11 program and related financing option proposed by
12 Niagara Mohawk Power Corporation d/b/a National
13 Grid (Niagara Mohawk or the Company) in its rate
14 filing made on April 28, 2017 and corrections
15 and update (C&U) filing made on July 10, 2017.

16 Q. What is the Rate Year in these proceedings?

17 A. The twelve months ending March 31, 2019. This
18 period coincides with Niagara Mohawk's fiscal
19 year 2019.

20 Q. Will any recommendations made by the Staff
21 Information Services Panel, or SISP, apply to
22 GBE?

23 A. Several recommendations made by the SISP will
24 apply to GBE, as it is an information services,

1 or IS, investment. These adjustments are
2 described in SISP testimony, and include: the
3 slippage adjustment to capital expenditures and
4 operating and run the business expenses; an
5 adjustment to the National Grid USA Service
6 Company (National Grid USA or Service Company)
7 return on all IS investments; the downward-only
8 reconciliation of capital expenditures
9 associated with Niagara Mohawk's Service Company
10 Rent Expense; and the capital expenditure and
11 variance reporting requirements for the
12 Company's IS investments.

13 Q. What additional recommendations will you have
14 specifically for GBE?

15 A. Our recommendations for GBE include: (1)
16 benchmarks to measure the successful
17 implementation of GBE and to verify that
18 customers receive the program benefits; (2) a
19 cap on GBE costs to be recovered from Niagara
20 Mohawk customers; and (3) specific
21 recommendations concerning the Company's
22 financing proposal.

23 Q. In your testimony, will you refer to, or
24 otherwise rely on, any information obtained

1 during the discovery phase of this proceeding?

2 A. Yes. We rely on several responses provided by
3 the Company to information requests (IRs).

4 These responses are included in
5 Exhibit____(SGBEP-1), and will be referred to
6 using the Departments assigned request number
7 (e.g., DPS-1). For instance, the Department's
8 first IR was identified as DPS-1.

9 Q. Is the Panel sponsoring any other exhibits?

10 A. No.

11 **Gas Business Enablement**

12 Q. What is GBE?

13 A. As explained beginning on page 87 of the
14 Company's Gas Infrastructure and Operations
15 Panel testimony, GBE is a framework of new
16 technology solutions and business process
17 changes that National Grid USA, Niagara Mohawk's
18 parent company, believes are necessary to
19 strengthen and improve the performance of
20 National Grid USA's gas business across multiple
21 service territories. Niagara Mohawk states that
22 National Grid USA's gas businesses, including
23 Niagara Mohawk, need to replace aged computer
24 systems, improve gas safety performance, deliver

1 complex capital investment programs, and meet
2 customers' expectations. The Company claims
3 that GBE was developed through an internal
4 collaboration among National Grid USA's business
5 units as a holistic transformation to deliver
6 improvements and build a platform that supports
7 future system needs.

8 Q. Why did the Company assert GBE is needed?

9 A. The Company states four main reasons as the
10 drivers behind developing the GBE program: (1)
11 the age of its software systems; (2) gas safety
12 performance and regulatory compliance; (3) the
13 increasing complexity of its capital investment
14 program; and (4) evolving customer expectations.

15 Q. Why does the Company claim it needs the GBE
16 program to address its aging software systems?

17 A. The Company states in its response to IR DPS-
18 432, that GBE will replace the 50 existing
19 Niagara Mohawk systems with 19 new systems.
20 Across the entire Service Company, GBE will
21 reduce the 117 existing systems to those same 19
22 new systems. Further, it states that the
23 average age of those systems is 11 years.
24 Accordingly, the Company believes that an

1 investment in new software systems is warranted.

2 Q. What issues has the Company had with gas safety
3 regulatory compliance?

4 A. According to the response to IR DPS-643, the
5 Company indicated that it had violations related
6 to Leaks, Maintenance, Operations, Piping Beyond
7 the Meter and Corrosion Control. Currently,
8 Niagara Mohawk uses paper-based processes to
9 manage compliance for all but the Piping Beyond
10 the Meter category.

11 Q. According to the Company, how will GBE help
12 improve its gas safety regulation compliance
13 performance?

14 A. The Company states, in the response to IR DPS-
15 643, that mobile applications can replace the
16 current paper-based processes that are used by
17 the Company for Gas Repair Orders, Gas Facility
18 Data Reports, Leak Investigation Report Forms,
19 and Warning Tags. User prompts and programming
20 logic can help ensure that all steps are
21 followed in accordance with procedures and data
22 are correctly entered and recorded in a way that
23 paper processes cannot. The electronic data can
24 then be transferred to the Company's Enterprise

1 Asset Management System, Customer Service
2 System, & Mobility System for follow up
3 remediation and work management. Niagara Mohawk
4 states that GBE will also improve its asset
5 management with a new geographic information
6 system (GIS), or mapping system, that can
7 provide a better interface for analyzing and
8 storing data. The Company states that new GBE
9 platforms will lead to better record keeping to
10 document compliance.

11 Q. According to the Company, how will GBE improve
12 its capital investment program?

13 A. The Company claims improved asset data
14 visibility, combined with workforce management
15 and productivity enhancements, will lead to a
16 better capital planning process and a more
17 productive workforce. Better asset management
18 capabilities would give Niagara Mohawk the
19 ability to perform asset condition assessment
20 and risk ranking and prioritization of asset
21 replacement.

22 Q. What evolving customer expectations has the
23 Company observed and how does GBE allow it to
24 meet them?

- 1 A. The Company notes that customers seek improved
2 customer appointment scheduling in terms of both
3 appointment window length and self-scheduling.
4 A new customer portal would allow for those
5 capabilities, plus help address inquiries for
6 new gas service or provide information on work
7 in a customer's neighborhood. An employee
8 portal would allow all employees, both field and
9 call center, to have access to data relevant to
10 customer inquiries to provide better informed
11 responses to inquiries. An employee portal
12 could also assist the Company's field crews with
13 automated compliance documentation and video
14 training capabilities.
- 15 Q. What other benefits does the Company claim are
16 provided by GBE?
- 17 A. Beyond the benefits we have discussed, the
18 Company also advocates the same objective for
19 GBE as the overall IS investment: consolidation
20 and integration of multiple platforms across its
21 operating companies. In addition, the Company
22 estimated revenue requirement savings, both in
23 reduced costs, referred to as "Type 1" benefits,
24 and avoided future costs, referred to as "Type

1 2" benefits. These are included in the rate
2 filing and listed in Exhibit____(GIOP-12).

3 Q. Describe the Type 1 benefits.

4 A. The Company provided five quantified Type 1
5 savings from GBE, shown in Exhibit ____ (GIOP-12)
6 and explained in more detail in its response to
7 IR DPS-430. The first is a reduction, or
8 redirection, in operating expenses through the
9 use of the Asset Investment Planning and
10 Management (AIPM) tool. The Company states that
11 its new AIPM tool and advanced analytics
12 capabilities will allow it to reduce operating
13 expenses through better informed repair versus
14 replace decisions. This benefit is calculated
15 as a 0.82 percent reduction in its controllable
16 operating expenses, with annual savings for
17 Niagara Mohawk of \$2,279 beginning in fiscal
18 year 2021 and fully realized annual savings for
19 Niagara Mohawk of \$328,242 in fiscal year 2023.
20 The second Type 1 benefit is a reduction in
21 damages that currently result from data quality
22 errors. Due to record or locator errors,
23 Niagara Mohawk incurs costs from fixing the
24 resulting damages. These annual savings for

1 Niagara Mohawk are estimated at \$6,937 in the
2 Rate Year, with fully realized annual savings in
3 fiscal year 2020 at \$27,748. The third Type 1
4 benefit is clerical/back office productivity
5 improvement. This benefit results from clerical
6 staff no longer needing to input data into
7 multiple systems, which the Company assumes will
8 result in a productivity increase of two hours
9 per employee per day. The annual savings to
10 Niagara Mohawk from this benefit begin in fiscal
11 year 2020 at \$2,957, with peak annual savings of
12 \$212,899 realized in fiscal year 2022. Another
13 Type 1 benefit is reduced travel mileage for
14 damage prevention. The Company anticipates that
15 software to optimize technician routing can
16 reduce the necessary mileage to jobs based on
17 running simulations on the optimization
18 software. The annual savings to Niagara Mohawk
19 for this benefit are \$4,627 beginning in fiscal
20 year 2020 and are full realized in fiscal year
21 2021 at \$6,169. The fifth and final Type 1
22 benefit is from productivity improvements. This
23 benefit results from field technicians' ability
24 to document and access data in the field more

1 easily with the elimination of paper forms and
2 was calculated assuming productivity would
3 improve by three percent. The annual savings to
4 Niagara Mohawk would begin in fiscal year 2020
5 at \$124,375, with fully realized annual savings
6 of \$895,502 by fiscal year 2022.

7 Q. Do any Type 1 savings occur in the Rate Year?

8 A. Yes. As described previously, the Company
9 projects savings from a reduction in damages due
10 to data quality errors in the Rate Year totaling
11 \$6,937. This amount is reflected in the revenue
12 requirement in Exhibit___(RRP-3), Schedule 27.

13 Q. How did the Company estimate program costs and
14 develop the implementation plan for GBE?

15 A. The Company hired two consultants, Accenture and
16 PricewaterhouseCoopers (PwC), as partners to
17 develop the costs and implementation road map
18 for GBE. According to the response to IR DPS-
19 431, Accenture used its proprietary model to
20 estimate costs using a bottom-up approach. Cost
21 estimates are based on two inputs: labor rates
22 and hours required for each type of position,
23 and also include the cost of software and
24 hardware. PwC's role was to check the cost

1 estimate provided by Accenture to ensure it
2 aligned with industry benchmarks and to evaluate
3 the GBE roadmap to make sure it would provide
4 the program objectives, that the scope was
5 achievable, and that the software applications
6 were appropriate to support the program
7 objectives.

8 **GBE Revenue Requirement**

9 Q. Describe how GBE relates to the Company's total
10 proposed IS investment.

11 A. The Company's GBE program is included in its
12 overall IS investment plan. However, it is
13 treated as a stand-alone, single project by the
14 Company, separate from the other IS initiatives.
15 In response to IR DPS-433, Question 5, the
16 Company explains that "GBE does not rely on
17 other IS programs for functionality."

18 Q. What is the cost of GBE for National Grid USA?

19 A. The GBE investment totals \$478 million for
20 National Grid USA, and, similar to the other IS
21 investments, will be implemented across National
22 Grid's seven gas operating companies.

23 Q. How was that cost allocated to Niagara Mohawk?

24 A. Costs for GBE were separated into capital,

1 operating and "run the business" (RTB) expenses,
2 similar to the other IS projects as described in
3 the Staff Information Systems Panel's testimony.
4 All GBE capital spending is amortized over ten
5 years and allocated using the C-210 allocator,
6 which allocates costs across all gas operating
7 companies based on the number of customers.
8 This resulted in an allocation of 16.89 percent
9 of all GBE costs to Niagara Mohawk.

10 Q. What is the cost of GBE to Niagara Mohawk?

11 A. When allocated its 16.89 percent, GBE will cost
12 Niagara Mohawk approximately \$77.4 million.

13 Q. What is the proposed timeline for GBE
14 implementation?

15 A. GBE will be implemented over a five year period,
16 beginning in fiscal year 2018 and being
17 completed by the end of fiscal year 2023.

18 Q. What costs have already been incurred for GBE?

19 A. The total cost of \$478 million includes
20 approximately \$20 million that was previously
21 spent in fiscal year 2017 on project research
22 and development costs. Of this \$20 million,
23 none is included in the Company's filing to be
24 recovered from Niagara Mohawk's customers.

1 Q. Where are the GBE capital costs addressed in the
2 Company's testimony and exhibits?

3 A. The GBE program is discussed in the Company's
4 Gas Infrastructure and Operations Panel
5 testimony, from Pages 87 to 105. The GBE
6 Capital projects for the Rate Year are listed on
7 Exhibit___(ISP-3) and total \$104.6 million for
8 National Grid USA. The resulting revenue
9 requirement for Niagara Mohawk is shown on
10 Exhibit___(RRP-3), Schedule 9 and totals \$1.775
11 million after the costs are allocated, amortized
12 and the return is calculated. This process is
13 shown in Exhibit___(RRP-11), workpaper to
14 Exhibit___(RRP-3), Schedule 9, Workpaper 3.

15 Q. Where are the GBE operating costs addressed in
16 the Company's testimony and exhibits?

17 A. Operating expenses associated with the GBE
18 program are shown in Exhibit___(GIOP-10) and
19 total \$64.1 million for National Grid USA in the
20 Rate Year, of which \$9.6 million and \$198,000 is
21 allocated to Niagara Mohawk's gas and electric
22 businesses, respectively. RTB expenses are
23 shown in Exhibit___(GIOP-11), with incremental
24 RTB costs from GBE totaling \$7.1 million for

1 National Grid USA in the Rate Year, of which
2 \$1.2 million is allocated to Niagara Mohawk.

3 Q. What is the total Rate Year revenue requirement
4 impact of GBE to Niagara Mohawk?

5 A. Including the capital, operating and RTB
6 expenses discussed previously, the total Rate
7 Year revenue requirement impact to Niagara
8 Mohawk is approximately \$12.8 million.

9 **Past Implementation Results**

10 Q. Has National Grid USA undertaken any large scale
11 IS investments in the past five years?

12 A. Yes. In 2012, National Grid USA was scheduled
13 to implement the U.S. Foundation Project, or
14 USFP. The implementation of this project is
15 discussed in the "Northstar Report" submitted
16 to the Commission by the Northstar Consulting
17 Group in Case 13-G-0009. The Northstar Report
18 is available on the Commission's website.

19 Q. What was the purpose of Case 13-G-0009, and why
20 was the USFP the subject of a consultant report?

21 A. Case 13-G-0009 was a comprehensive management
22 and operations audit of National Grid USA's
23 three natural gas companies operating in New
24 York State: Niagara Mohawk, The Brooklyn Union

1 Gas Company d/b/a National Grid NY (KEDNY) and
2 KeySpan Gas East Corporation d/b/a National Grid
3 (KEDLI). This audit focused on the construction
4 program planning, operational efficiency and
5 risk management efforts. Within that scope, the
6 Northstar Report documents the timeline and
7 implementation of the USFP by National Grid USA
8 and includes recommendations and findings.

9 Q. What was the purpose of the USFP?

10 A. The Northstar Report explains that, following
11 the 2007 merger between National Grid USA and
12 the parent of KEDLI and KEDNY, National Grid USA
13 developed a solution to replace and integrate
14 multiple systems and processes across its
15 operating companies. This undertaking was
16 called the USFP, and its objective was to
17 achieve a consolidated platform that replaced
18 the Oracle and PeopleSoft Enterprise Resource
19 Planning, or ERP, suites with SAP, which stands
20 for Systems, Applications and Products, thereby
21 providing improved functionality. The USFP
22 addressed the following information technology
23 platforms: Human Resources, supply chain,
24 finance, customer master data, non-utility

1 billing, supplier self-service, business
2 information warehouse, and business objects
3 planning and consolidation.

4 Q. What was the estimated cost of the USFP?

5 A. As stated in the Northstar Report, the USFP was
6 initially sanctioned in June 2009. The final
7 USFP sanction, approved in 2012, included \$392.8
8 million in total project costs, which included
9 software license fees.

10 Q. What does it mean when a project is sanctioned?

11 A. For projects over \$1 million, Niagara Mohawk
12 must complete the sanctioning process for
13 approval through National Grid USA's Sanctioning
14 Committee. This process identifies appropriate
15 spending levels based on project details and
16 cost estimates. Projects can be sanctioned
17 several times before the final sanction amount
18 is determined.

19 Q. When was the USFP scheduled to begin operating?

20 A. The "go live" date initially was scheduled for
21 October 1, 2012, with a simultaneous launch for
22 all new systems across all operating companies.
23 National Grid USA postponed the go live date to
24 November 5, 2012.

1 Q. Did the Northstar Report identify any problems
2 with the USFP implementation?

3 A. Yes. National Grid USA experienced several
4 issues after the new system went live on
5 November 5, 2012. The first payroll to be
6 processed had many errors, and errors continued
7 to occur for almost a year after the go live
8 date. Additionally, supply chain issues
9 appeared within a month of the go live date.
10 Further problems arose with National Grid USA's
11 closing of first month's financial books after
12 the go live date. That closing took 43 days,
13 compared to less than seven days for closings
14 using the previous systems. Finally, managers
15 had issues generating reports. Specifically, no
16 detailed cost reports were generated until
17 November 2013, almost one year after the USFP
18 went live.

19 Q. How did National Grid USA respond to these
20 implementation issues?

21 A. National Grid USA formed a "USFP Stabilization
22 Program" in mid-November 2012 to address these
23 issues. It also formed the USFP Business
24 Improvement Program to attempt to deliver the

1 full USFP benefits. These additional programs
2 caused significant overspending beyond the
3 project budget.

4 Q. Did the Northstar Report explain why the USFP
5 implementation had these issues?

6 A. The Northstar Report findings and conclusions
7 are summarized beginning on Page 12 of Chapter
8 IV. The Northstar Report includes seven
9 conclusions for why the USFP implementation
10 experienced overspending and functionality
11 issues that we believe are also relevant to GBE.
12 First, National Grid USA was unprepared for the
13 complexity and magnitude of the USFP and should
14 have had discussions with other utilities to
15 gain industry experience before implementation.
16 Second, National Grid USA's financial processes
17 lacked sufficient internal controls, and while
18 the USFP was expected to solve this issue, the
19 end result was that the SAP program implemented
20 through the USFP did not solve the internal
21 control issue. Third, National Grid USA was
22 unable to quantify the incremental benefits from
23 the USFP, such as improved operational
24 efficiencies, consolidation and cost reductions,

1 and therefore it was difficult to measure
2 program success. Fourth, National Grid USA did
3 not focus sufficiently on the individual
4 utilities. Fifth, the staff at these utilities
5 were not able to generate the reports needed for
6 managers to make informed decisions due to lack
7 of training or ability. Sixth, zero-based
8 budgeting was not used to forecast operations
9 and maintenance (O&M) budgets. Seventh, the
10 capital review and planning process for National
11 Grid USA focuses too heavily on spending
12 variances and not enough on the underlying
13 drivers of these variances.

14 Q. How much did the implementation issues and
15 necessary fixes increase the USFP budget?

16 A. According to the Northstar Report, the budget
17 for the USFP was \$392.8 million, whereas actual
18 spending was \$945.1 million. Thus, the
19 implementation issues and necessary fixes
20 resulted in spending more than double what
21 National Grid USA had budgeted.

22 Q. What did the Northstar Report recommend
23 concerning the increased cost?

24 A. It recommended that National Grid USA file a

1 report with Department of Public Service Staff
2 detailing the capital and operating expenses
3 associated with increased costs from fixing the
4 implementation issues. The report would be used
5 to ensure that ratepayers would not be
6 responsible for those costs in the future.

7 Q. Please explain the relevance of the conclusions
8 summarized above to GBE.

9 A. We are concerned that the same, or similar,
10 issues could affect National Grid USA's effort
11 to carry out the full scale of its planned GBE
12 implementation.

13 Q. Did the Company's implementation plan
14 specifically address the concerns raised by the
15 Northstar Report?

16 A. Yes, in some instances.

17 Q. Please identify how the GBE implementation plan
18 did or did not address each conclusion from the
19 Northstar Report, starting with the conclusion
20 that National Grid USA was unprepared for the
21 complexity and magnitude of the USFP and should
22 have had discussions with other utilities before
23 implementation.

24 A. In its preparation for GBE, National Grid USA

1 conferred with three other utilities.
2 Attachment 2 to the response to IR DPS-433
3 details the lessons learned by the Company from
4 this process and how those lessons were
5 incorporated into the GBE implementation plan.
6 The list of lessons learned includes: a phased
7 approach to implementation, talent growth by
8 hiring new employees for the new systems,
9 directly engage impacted users, focus on data
10 scrubbing and quality, and a "pulse check"
11 evaluation process to engage employees during
12 implementation.

13 Q. How did the Company address Northstar's
14 conclusion that, while the USFP was expected to
15 solve its financial internal controls issues, it
16 ultimately did not?

17 A. The Company did not address this issue in the
18 current implementation plan. Specifically, the
19 Company has stated it expects GBE programs to
20 provide additional internal controls to improve
21 its gas safety compliance by replacing manual
22 processes with electronic ones, as stated in the
23 response to DPS-432, Question 11. While we
24 support the GBE investment conceptually, we are

1 concerned that the internal controls built into
2 the program functionality may not fully solve
3 the Company's internal controls issues, similar
4 to what happened with the USFP and financial
5 internal controls.

6 Q. What do you recommend?

7 A. The Company should provide a plan for how it can
8 eliminate gas safety compliance issues resulting
9 from insufficient or ineffective internal
10 controls, and, to be conservative, it should
11 assume that the GBE program will not
12 definitively fix the compliance issues.

13 Q. How does the Company's implementation plan
14 quantify the incremental benefits from GBE and
15 propose to measure program success?

16 A. As discussed, Exhibit___(GIOP-12) lists expected
17 benefits from GBE, including those that directly
18 reduce revenue requirement and those that avoid
19 future costs. The benefits that directly impact
20 revenue requirement are driven by productivity
21 and efficiency gains, such as reduced travel
22 time, streamlined workloads and a reduction in
23 compliance and gas safety penalties. The
24 Company provided the calculation behind the

1 benefits that reduce the revenue requirement in
2 its response to IR DPS-430. We will address
3 these benefits in more detail later in our
4 testimony. The Company explained, in a
5 technical session, that it developed eight key
6 performance indicators to measure improvements
7 delivered. They are: (1) average unproductive
8 time; (2) average number of complete jobs; (3)
9 average number of work orders processed; (4)
10 total call volume; (5) customer effort rating;
11 (6) number of construction projects delayed due
12 to supply chain issues; (7) inventory turnover;
13 and (8) total compliance negative revenue
14 adjustments.

15 Q. The Northstar Report concluded that National
16 Grid USA did not focus sufficiently on
17 individual utilities in its rollout of the USFP.
18 Is that different with this IS investment?

19 A. Yes. For projects that apply to multiple
20 operating companies, such as GBE, National Grid
21 USA is taking an "agile" approach where each new
22 software platform will be implemented fully in
23 each operating company, one at a time. This
24 differs from National Grid USA's approach to the

1 USFP, where a single "go-live" date was selected
2 for the USFP across all operating companies.

3 Q. Does the "agile" approach sufficiently address
4 this issue?

5 A. While only real world experience can provide a
6 definitive answer to this question, we concur
7 that the agile approach reflects a reasonable
8 effort to address the problems stemming from the
9 universal go live date from the USFP. Fully
10 implementing and testing each program in one
11 operating company before moving on to the next
12 allows the Company to better control any issues
13 that arise. Learning during implementation
14 without causing significant problems for its
15 entire business, as happened during the roll out
16 of the USFP, will help National Grid USA avoid
17 resource issues that arise from fixing problems
18 and running its businesses simultaneously.

19 Q. According to the Northstar Report, utility staff
20 were not able to properly query data and
21 generate sufficient reports for managers. Has
22 this issue been addressed?

23 A. Generally, yes. Front line employees were
24 engaged early in this process, involving them in

1 the solution. The implementation plan calls for
2 employee engagement throughout the
3 implementation process and new employees will be
4 hired to learn the new software from the initial
5 phase. However, we do have some reservations in
6 this area, as it is difficult to quantify
7 employee acceptance and preparedness for
8 implementing and using the new processes.

9 Q. Please define zero-based budgeting.

10 A. Zero-based budgeting, as it relates to cost
11 estimation, means that each budget item is
12 analyzed to determine its future costs without
13 using historic costs. In other words, specific
14 variables and inputs are used to "build" the
15 budget starting from \$0, rather than
16 extrapolating from historic spending.

17 Q. Did National Grid USA use zero-based budgeting
18 to forecast O&M budgets for GBE?

19 A. Yes. For GBE, zero-based budgeting was used by
20 the two consultants, PwC and Accenture, to
21 forecast both capital and O&M budgets.

22 Q. Has the Company demonstrated a shift in its
23 capital review and planning process from a focus
24 on spending variances to a focus on identifying

1 the underlying drivers of these variances?

2 A. No, not that we could discern from the
3 information provided to us.

4 Q. Overall, how did National Grid USA address the
5 issues raised in the Northstar Report?

6 A. While the Company did address several of the
7 issues raised, it left others unaddressed.
8 Ultimately, National Grid USA is yet to show
9 that it is capable of fully implementing this
10 level of IS investment on time and on schedule.

11 **Staff's Review**

12 Q. What approach did you take to reviewing the
13 Company's proposed GBE program?

14 A. First, we used technical sessions and field
15 visits to better understand the goals and
16 objectives of GBE, the reasons for the
17 investment, and the development of the program.
18 There was one technical session specifically for
19 GBE, along with the several technical sessions
20 discussed in the Staff Information System
21 Panel's testimony concerning the Company's
22 project selection and sanctioning process for
23 all of IS, including GBE. Meeting with Company
24 field employees during our gas capital

1 expenditure review allowed us to observe the
2 limitations placed on them due to working with
3 the Company's current software, hardware and
4 paper processes. Second, we evaluated
5 Accenture's cost estimation. Third, we reviewed
6 the alternatives National Grid USA and Niagara
7 Mohawk considered and the associated benefits to
8 each investment option.

9 **Cost Estimation**

10 Q. Did you review Accenture's cost estimate of GBE?

11 A. Yes, as much as we were able to obtain. The
12 full model was proprietary information which
13 Niagara Mohawk was unable to provide. However,
14 the Company's confidential response to IR DPS-
15 654 did provide us with the inputs to
16 Accenture's model. We were able to confirm that
17 the program cost was estimated using a bottom-up
18 approach and based on the estimated number of
19 labor hours needed to implement the program, the
20 hourly rates for specific types of both internal
21 and external employees and software and hardware
22 costs.

23 Q. How did National Grid USA verify that the cost
24 estimate provided by Accenture was reasonable?

1 A. PwC was retained to verify the cost estimate
2 provided by Accenture aligned with industry
3 benchmarks for similar scale projects. The
4 response to IR DPS-431 shows the report from PwC
5 that contains, along with a full review of the
6 implementation plan, scope, design process and
7 risk analysis of GBE as developed by Accenture,
8 its determination concerning the cost estimate
9 of GBE. The report states that PwC determined
10 the cost estimate from Accenture of GBE was
11 reasonable.

12 Q. Given this verification from PwC, are you
13 concerned with the reasonableness of the cost
14 estimate for GBE?

15 A. Yes. While we generally approve of National
16 Grid USA's approach to estimating the GBE costs
17 and developing a plan for implementation by
18 hiring Accenture and PwC, GBE, a unique large
19 scale investment, is a difficult undertaking to
20 estimate costs for. Therefore, we believe the
21 various customer protections that we are
22 recommending, including the downward only true
23 up of Service Company Rents, a cost cap for GBE,
24 and benchmarking, are necessary to ensure

1 customers are protected for any variance between
2 estimated and actual costs.

3 **Alternatives Considered**

4 Q. Did you review the alternatives that National
5 Grid USA considered when it planned GBE?

6 A. Yes. National Grid USA considered five
7 alternatives: (1) tech stabilization; (2) like
8 for like replacements; (3) "backbone;" (4)
9 value-oriented jurisdictional deployment; and
10 (5) value-oriented accelerated deployment.

11 Descriptions of the different alternatives are
12 included in its response to IR DPS-689.

13 Q. Describe tech stabilization.

14 A. This alternative would provide any available
15 support and updates to the Company's current
16 software systems but would not replace any of
17 them. This would be a temporary solution,
18 extending the life of the current systems until
19 they could be replaced.

20 Q. Why did National Grid USA reject the tech
21 stabilization alternative?

22 A. National Grid USA did not view this as a viable,
23 long term solution, as it did not address any of
24 the current IS issues and involved spending

1 money on obsolete or unsupported systems.

2 Q. Describe the like for like replacements
3 alternative.

4 A. Under this alternative, National Grid USA would
5 replace each software system with its supported
6 equivalent. This alternative would not deliver
7 any additional capabilities or consolidation of
8 systems but would address the issue of having
9 aging, unsupported systems.

10 Q. Why was this alternative rejected?

11 A. While this option would address its aging
12 systems, National Grid USA states that it would
13 not address other issues such as integrating and
14 consolidating its myriad systems, training and
15 data management, gas safety and other process
16 improvements. The goal to align processes and
17 gain efficiencies with this IS upgrade was
18 important and National Grid USA did not believe
19 this alternative provided it with that option.

20 Q. Describe the third alternative, or backbone
21 alternative.

22 A. This alternative would provide more integration
23 and systems consolidation than like for like
24 replacement, but would not provide the switch

1 from paper to electronic documentation of field
2 work, the full integration of data needed for
3 the customer call center to improve its data
4 access, or analytics for data and asset
5 management. According to the response to IR
6 DPS-689, a full implementation timeline of three
7 and a half years was developed for this
8 alternative with a total cost estimate of \$273
9 million.

10 Q. Why did National Grid USA reject the backbone
11 alternative?

12 A. Ultimately it was determined that this option
13 would not provide the full range of benefits
14 desired, and could potentially offset financial
15 benefits with inefficient use of the new systems
16 resulting from to the lack of full integration
17 and additional capabilities.

18 Q. Describe the value-oriented jurisdictional
19 deployment alternative.

20 A. This is the option National Grid USA selected
21 and has proposed as GBE in this case.

22 Q. Describe the value-oriented accelerated
23 deployment alternative.

24 A. This alternative is the same as the chosen GBE

1 proposal, but on an accelerated timeframe, to be
2 implemented in four and a half years instead of
3 five.

4 Q. Why was this alternative rejected?

5 A. This alternative was rejected because of higher
6 costs, \$466 million compared to \$458 million for
7 the selected proposal, and the increased
8 implementation risk from the shorter timeframe.
9 The estimates of \$458 million and \$466 million
10 do not include the \$20 million of development
11 costs already spent.

12 Q. Did National Grid USA adequately pursue the
13 different alternatives?

14 A. Yes. As demonstrated in the response to IR DPS-
15 689, multiple alternatives were sufficiently
16 developed with, at least, a high level cost
17 estimate and implementation schedule, benefits
18 and capabilities.

19 Q. Which alternative would you classify as the
20 minimum level of investment that needs to be
21 made?

22 A. The backbone alternative represents the minimum
23 investment that National Grid USA needs to make
24 to improve capabilities, acquire new, fully

1 supported IS platforms and achieve platform
2 consolidation. Accenture estimated the cost of
3 this investment as \$273 million.

4 Q. Is that minimum investment necessary?

5 A. Yes. Given the age of the systems, an
6 investment in new systems is certainly necessary
7 at this time.

8 Q. Why is the backbone alternative the preferred
9 minimum investment compared to the first or
10 second alternatives?

11 A. The tech stabilization alternative does not
12 represent a viable solution to the Company's IS
13 situation. Incurring significant costs to
14 maintain existing, outdated, and unsupported
15 systems is an inefficient and temporary
16 solution, when money could be spent on a longer-
17 term solution. The like for like replacement
18 second alternative is workable, as it would
19 address the Company's aging systems. However,
20 it does not represent the most efficient or
21 sustainable solution, as, once those systems are
22 aged, the Company would be in the same situation
23 it is now: looking for synergies between its
24 significant number of unintegrated applications

1 and struggling to find a solution to those
2 inefficiencies. Ultimately, the Company should
3 use this investment to improve this situation.
4 The backbone alternative represents the minimum
5 cost to replace the Company's IS platform with
6 an integrated, improved solution.

7 Q. Why did National Grid USA choose the proposed
8 GBE option?

9 A. As described previously, there was a desire for
10 additional capabilities beyond what the current
11 IS platforms can deliver, to improve, among
12 other things, its customer service, gas safety
13 regulatory compliance, capital investment
14 planning and workforce management and training
15 processes. The chosen GBE proposal provides
16 these capabilities, while the first three did
17 not. While the accelerated implementation
18 alternative provided the same capabilities as
19 the selected alternative, National Grid USA
20 preferred a longer period to take on less
21 implementation risk and reduce overall costs.
22 Further, in a technical session, the Company
23 stated that the incremental costs of the
24 selected alternative, GBE, over the backbone

1 alternative, will be paid back by the resulting
2 savings from GBE four years and four months
3 after full implementation.

4 Q. How much more than the backbone, or preferred
5 minimum investment, alternative does National
6 Grid USA propose to spend for the additional
7 capabilities provided under its GBE proposal?

8 A. Over the course of the five year implementation
9 plan, GBE costs \$458 million. Comparatively,
10 the backbone option costs \$273 million.
11 Therefore, National Grid USA proposes to spend
12 an incremental \$185 million for the added
13 capabilities.

14 Q. Do you agree with the decision to spend an
15 additional \$185 million for its proposed GBE
16 program with these capabilities?

17 A. Yes, however with reservations.

18 Q. Please explain.

19 A. First, as we have already said, we recognize the
20 need for a minimum level of investment in the
21 gas IS platforms. Given the age of the current
22 software and the risk to the Company, ratepayers
23 and the general public of running the gas system
24 on unsupported software, some investment is

1 needed at this time. Second, we support the
2 goals and objectives that the Company expects to
3 attain through GBE. While many of the benefits
4 are difficult to quantify, operating a utility
5 with modern technological capabilities to
6 analyze data and make better investment
7 decisions is an opportunity that the Company
8 reasonably wants to take advantage of. Third,
9 we caution that solutions are only as good as
10 the estimates of costs and benefits. If the
11 actual benefits do not outweigh the actual
12 costs, then the wrong solution may have been
13 chosen. Fourth, given National Grid USA's past
14 implementation issues with the USFP in 2012,
15 while recognizing that National Grid USA's GBE
16 implementation plan does address some of the
17 issues from the USFP implementation, it has yet
18 to demonstrate that it can manage an IS
19 investment of this scale without delays in
20 delivering the full benefits or escalating
21 costs. Additionally, we share the concerns
22 discussed in the Staff Information Systems
23 Panel's testimony. In this overall context, we
24 have serious concerns about National Grid USA's

1 ability to provide the benefits of its GBE
2 proposal in a timely and cost effective manner.
3 We, therefore, recommend allowing the Company to
4 move forward with its GBE plan but with several
5 protections for ratepayers.

6 **Customer Protections**

7 Q. Please describe your recommended customer
8 protections.

9 A. As an initial matter, we recommend that all
10 customer protections recommended by the Staff
11 Information Systems Panel for the IS
12 investments, generally, apply to the GBE program
13 as well, since it is part of the overall IS
14 investment. This includes the 37 percent
15 slippage adjustment to account for historical
16 underspending and the downward-only
17 reconciliation for IS capital expenditures.
18 This also includes the general reporting
19 requirements the Staff Information Systems Panel
20 is recommending. The IS investment reports
21 should have a section specific to the GBE
22 program spending, variance, with explanation of
23 causes, and progress.

24 Q. Why should these general IS spending protections

1 be required for the GBE program?

2 A. The customer protections are designed to protect
3 ratepayers in the event that program
4 implementation is delayed or overall costs
5 increase, and to ensure that Niagara Mohawk only
6 retains revenues for the IS investment that is
7 actually made.

8 Q. Do you recommend additional customer protections
9 specific to GBE?

10 A. Yes, because the general IS spending protections
11 will not ensure that the GBE program benefits
12 are delivered by the Company as scheduled and to
13 the full degree envisioned.

14 Q. What additional protections do you recommend?

15 A. We recommend an overall cap on the amount that
16 can be recovered from ratepayers for GBE, and we
17 also recommend instituting benchmarks to ensure
18 that the Company delivers the incremental
19 benefits of GBE compared to the backbone
20 alternative.

21 Q. What cap do you recommend imposing on the amount
22 Niagara Mohawk can recover from ratepayers for
23 GBE?

24 A. The total cost of the GBE project to Niagara

1 Mohawk customers is \$49.6 million in total
2 capital expenditures and \$31.2 million in total
3 operating expenses. The Company should not earn
4 a return of and on capital costs or be allowed
5 the recovery of operating costs that exceed
6 these amounts to implement GBE. These amounts
7 are the portion of the total forecast program
8 cost of \$458 million allocable to Niagara
9 Mohawk.

10 Q. Why should the Commission limit the total cost
11 of the GBE project to be recovered from
12 customers?

13 A. Niagara Mohawk asserts that the incremental
14 investment of \$185 million is cost beneficial.
15 If, however, the program costs exceed Niagara
16 Mohawk's forecasts, while providing the same
17 level of benefits, the program may not be cost
18 effective. More fundamentally, as we discussed
19 with regard to the USFP and the Northstar
20 Report, National Grid USA has yet to demonstrate
21 that it can implement a large IS project within
22 budget. The overall cost cap will provide a
23 strong incentive to National Grid USA to manage
24 scope, timing and cost of the project.

1 Q. Why do you recommend instituting benchmarks for
2 the delivery of benefits promised through GBE?

3 A. Given the nature of the incremental investment
4 of \$185 million by National Grid USA to replace
5 its gas business software platforms with
6 software that provides new capabilities, we
7 recommend that the Company be required to
8 demonstrate the successful delivery of these
9 capabilities through clear and measurable
10 benchmarks. A demonstration of the successful
11 delivery of the capabilities and customer
12 benefits being tracked would result in the
13 Company's full recovery of the incremental
14 investment to achieve these benefits, up to the
15 amounts forecast by the Company in these
16 proceedings. If, however the Company cannot
17 deliver the benefits and capabilities that it
18 claims GBE will provide, then the Company should
19 be required to forgo or return to customers the
20 incremental costs associated with those benefits
21 and capabilities.

22 Q. What capabilities or benefits should be
23 measured?

24 A. We have identified three capabilities that we

1 recommend measuring as benchmarks to ensure that
2 customers receive the full benefits of GBE after
3 implementation.

4 Q. Please describe the first benchmark.

5 A. The first is customer appointment windows,
6 discussed in the Company's response to IR DPS-
7 658. As described in this response, the new
8 customer scheduling tool should allow a
9 reduction in customer appointment windows from
10 eight hours to between two and four hours, and,
11 according to Exhibit___(GIOP-9), is scheduled to
12 be implemented in October 2019. Therefore, the
13 Company should be required report its actual
14 average customer appointment windows for
15 calendar year 2020. If this average is less
16 than four hours, then the benefit has been
17 delivered.

18 Q. Please describe the second benchmark you
19 recommend?

20 A. The second benchmark would be the number of
21 damages due to data quality errors. In
22 Exhibit___(GIOP-12) and in its response to IR
23 DPS-430, the Company stated a goal of lowering
24 its three-year average number of mismarks to

1 move 50 percent of the way between its present
2 performance and the American Gas Association's
3 (AGA) three-year average number of mismarks for
4 similar sized utilities. If it meets this goal,
5 Niagara Mohawk would reduce its current three-
6 year average of 28 mismarks in calendar years
7 2013 through 2015 to 16 mismarks by the end of
8 fiscal year 2022.

9 Q. Why is the end of fiscal year 2022 the
10 appropriate measuring point?

11 A. According to the response to IR DPS-430, the end
12 of fiscal year 2022 is the appropriate measuring
13 point since the first full year of data after
14 implementation of the relevant GBE component
15 would be collected by the end of fiscal year
16 2020. Thus, by the end of fiscal year 2022, the
17 Company will have a three-year average based
18 fully on data using the new GBE systems.

19 Q. What is the third benchmark you recommend?

20 A. We recommend a benchmark measuring GBE's impact
21 on Niagara Mohawk's gas safety compliance,
22 specifically to violations resulting from
23 inefficient paper processes. Due to the
24 functionality to be added through GBE, moving

1 from paper to electronic processes with better
2 manager oversight and internal controls should
3 improve compliance. In its response to IR DPS-
4 643, the Company provided safety violations from
5 2012 through 2016 and described how GBE is
6 designed to correct each of them. For each of
7 the five categories listed, leaks, maintenance,
8 operations, piping beyond meter, and corrosion
9 control, the Company states that a mobile
10 application will improve performance.

11 Q. How would you benchmark GBE's success toward
12 correcting those processes?

13 A. We recommend that by the conclusion of fiscal
14 year 2023, when GBE is scheduled to be fully
15 implemented, the Company should not incur any
16 negative revenue adjustments resulting from
17 noncompliance with the categories listed in IR
18 DPS-643.

19 Q. Should the Company propose additional benchmarks
20 to measure the success of GBE?

21 A. Yes. We encourage the Company to propose
22 additional ways to use data to clearly measure
23 the successful implementation of GBE and the
24 delivery of new capabilities, which have

1 benchmarks that are easily measured. As
2 described previously, the Northstar Report found
3 that one of the failings in the roll out of the
4 USFP was the lack of quantification of benefits,
5 which would have provided a clear way to measure
6 the success of the program. Therefore, in
7 addition to the benchmarks we recommend
8 instituting, we think it is important that the
9 Company propose additional benchmarks.

10 Q. If the Company cannot demonstrate that it
11 delivered the benefits of GBE by delivering
12 results on all measureable benchmarks described,
13 what do you propose concerning rate treatment of
14 the incremental investment of \$185 million?

15 A. We recommend that any amount incorporated into
16 Niagara Mohawk's rates and paid by ratepayers be
17 deferred for credit to ratepayers in the next
18 rate case. The response to IR DPS-660 shows the
19 amount of the incremental investment scheduled
20 for the Rate Year and fiscal years 2020 and
21 2021. Niagara Mohawk's share of the \$185
22 million incremental investment is \$31.2 million,
23 or 16.89 percent, which includes both
24 incremental capital expenditures and upfront

1 operating expenses. We recommend that any of
2 this \$31.2 million that was paid by ratepayers,
3 whether through recovery of operating expense or
4 a return of and on capital expenditures in
5 Service Company Rents, be refunded through a
6 deferred liability if the benchmarks are not
7 achieved.

8 Q. What would be the result if Niagara Mohawk meets
9 one or two, but not all of the benchmarks?

10 A. If the Company meets one or two of the three
11 benchmarks we recommend, they should be allowed
12 to retain a prorated portion of Niagara Mohawk's
13 \$31.2 million allocation of the \$185 million
14 incremental investment in IS. For example, if
15 the Company meets two of the three benchmarks,
16 it should be entitled to recovery of two thirds,
17 or 66.7 percent, of the \$31.2 million, or \$20.8
18 million. For the remaining one third, or \$10.4
19 million, any of this amount that was paid by
20 ratepayers, whether through recovery of
21 operating expense or a return of and on capital
22 expenditures in Service Company Rents, should be
23 refunded through a deferred liability, similar
24 to the full amount if no benchmarks were

1 achieved.

2 Q. Should the incremental investment be tied to
3 additional reasonable benchmarks the Company may
4 propose?

5 A. Yes. If the Company proposes additional
6 benchmarks that effectively and clearly measure
7 the delivery of the incremental capabilities GBE
8 promises, then those benchmarks should be added
9 to the three benchmarks we recommend. In other
10 words, if the Company proposes one additional
11 benchmark that the Commission determines to be a
12 reasonable one, then attaining each benchmark
13 would equate to one quarter of the incremental
14 investment.

15 **Financing Proposal**

16 Q. Please summarize the Company's cost recovery
17 proposal associated with GBE.

18 A. The Company has included approximately \$12.8
19 million in the Rate Year revenue requirement
20 associated with GBE. This revenue requirement
21 is based on the traditional method of accounting
22 for, and financing of, the GBE project, as
23 described in detail in the Staff Information
24 Systems Panel testimony. Under this traditional

1 method, the capital expenditure portion of the
2 project is capitalized on the Service Company's
3 books. A portion of these costs are allocated
4 to Niagara Mohawk, which pays Service Company
5 Rents encompassing its portion of the
6 amortization expense of the project and the
7 return on the unamortized balance.

8 Additionally, the project's upfront operating
9 costs are expensed when incurred and the
10 appropriate allocation is charged to Niagara
11 Mohawk as an O&M expense.

12 Q. Did the Company propose an alternative method of
13 financing for GBE?

14 A. Yes. In the C&U Testimony of the Company's
15 Revenue Requirements Panel, Niagara Mohawk
16 proposed a third party financing option, or TPO,
17 for GBE, wherein the Company would finance both
18 the capital expenditures and the upfront
19 operating expenses through an outside third
20 party.

21 Q. How does the Service Company's utilization of a
22 TPO effect the cost of this project?

23 A. There are two significant effects of the TPO on
24 the overall costs of the project. First, the

1 Service Company would finance both the capital
2 costs and the upfront operating expenses
3 associated with the project. Therefore, rather
4 than charge those operating expenses in the year
5 in which they are incurred, the expenses would
6 be spread over the life of the asset.
7 Accordingly, interest would be not only be paid
8 the capital expenditures, but on the operating
9 expenses as well. Second, because the TPO will
10 be financing the project, 100 percent with debt,
11 Niagara Mohawk indicates that the cost to
12 finance the project will be less than Niagara
13 Mohawk's weighted average pre-tax cost of
14 capital. Therefore, the Company asserts that
15 use of the TPO will result in cost savings as
16 opposed to financing, the project in the
17 traditional manner.

18 Q. Why did the Company propose this TPO?

19 A. As stated on pages 35-36 of the C&U Testimony of
20 the Revenue Requirements Panel, Niagara Mohawk
21 declares that the TPO will result in lower total
22 GBE costs on a net present value basis.
23 Additionally, the Company states that the TPO
24 would better align cost recovery of GBE with the

1 implementation of benefits and provide the
2 operating companies an opportunity to recover
3 the costs of this investment. Specifically, the
4 Company asserts that the TPO would "support
5 implementing GBE on a staggered schedule that
6 best meets National Grid USA's business needs
7 and mitigates execution risks, while at the same
8 time eliminating any incentive to delay needed
9 investments based on the timing of rate
10 recovery."

11 Q. What are the cost reductions that the Company
12 claims will be realized as a result of utilizing
13 the TPO to finance GBE?

14 A. The Company estimates that total GBE financing
15 costs to all of National Grid's US customers
16 could be reduced by between \$10 million and \$35
17 million on a net present value basis. In
18 addition to the lower financing costs, Niagara
19 Mohawk also suggests that because the upfront
20 operating expenses will be spread across
21 multiple years, that the Company's revenue
22 requirement could be reduced by more than \$15
23 million over the Rate Year and two subsequent
24 fiscal years, combined.

1 Q. Do you agree that the TPO will result in cost
2 reductions?

3 A. We cannot make a determination at this time. In
4 the response to IR DPS-688, Question 1, the
5 Company provided a sensitivity analysis showing
6 the estimated costs for Niagara Mohawk using the
7 TPO versus the traditional method of financing.
8 The Company estimates the net present value of
9 the total GBE costs for Niagara Mohawk to be
10 \$72.4 million under the traditional method
11 versus \$65.4 million using the TPO. However,
12 while this suggests a benefit to using the TPO,
13 it is important to note that this analysis is
14 predicated upon a certain set of interest rate
15 assumptions. Whether or not actual net present
16 value savings will be realized depends upon the
17 terms of any financing agreement. Moreover, the
18 differential between the options also depends on
19 the pre-tax ROR authorized in these proceedings.
20 As the Company is still in the early stages of
21 assessing its financing options, we are unable
22 to evaluate the accuracy of this analysis and
23 therefore unable to determine if the TPO would
24 actually result in cost reductions.

1 Q. Do you have any other concerns?

2 A. Yes, even if the TPO would result in an overall
3 cost reduction for the GBE project, it is
4 unclear how much of this reduction would result
5 in savings to ratepayers versus shareholders.

6 Q. Please explain.

7 A. As previously stated, under the traditional
8 method of financing and accounting for project
9 costs, National Grid USA would have to expense
10 the upfront operating costs when they are
11 incurred. To the extent that another National
12 Grid operating company is operating under a rate
13 plan that did not reflect these costs in its
14 forecast revenue requirement, that operating
15 company would not be able to recover these
16 operating expenses from ratepayers. However, by
17 spreading these operating expenses over the life
18 of the asset, as National Grid proposes to do
19 with the TPO, that operating company would only
20 be out the portion of operating expenses that
21 had been amortized prior to its rates being
22 reset. Therefore, for the period of time that
23 an operating company is operating under a rate
24 plan that did not forecast GBE, shareholders

1 would reap the benefit, in the form of reducing
2 the amount of unrecoverable upfront operating
3 expenses, most of which could be collected when
4 the operating company's rates are reset.

5 Q. How is this relevant in these proceedings?

6 A. National Grid USA intends to roll out GBE not
7 only to Niagara Mohawk, but also to KEDLI and
8 KEDNY. KEDNY and KEDLI are currently operating
9 under rate plans that do not incorporate any
10 costs for GBE into their respective revenue
11 requirements.

12 Q. What is your position on the Company's TPO
13 proposal?

14 A. Based on the information provided, we cannot
15 make a determination on the TPO at this time.
16 As stated in response to IR DPS-602, question 3,
17 the Company is "still in the early stages of
18 determining the viability of financing options,
19 products, and providers." Given this early
20 stage, we do not know the specific details of
21 the TPO that would determine whether there are
22 cost reductions and/or ratepayer savings in this
23 proposed financing arrangement. Additionally,
24 we do not know the impact of this arrangement on

1 capitalization at the Parent Company level or
2 how this arrangement would be perceived by the
3 Company's outside auditors.

4 Q. Should the Commission set rates reflecting the
5 use of a TPO to finance GBE?

6 A. We cannot recommend that at this time. We
7 recommend that the Company provide additional
8 details on its TPO proposal in its rebuttal
9 testimony, including further support for the
10 inputs in the cost reduction analysis, a more
11 complete range of cost reduction scenarios and
12 the Company's best estimate of the cost
13 reduction, along with a thorough explanation for
14 why each variable in the analysis is the
15 Company's best estimate. Additionally, for each
16 of the scenarios provided, the Company should
17 also provide the amount of the cost reductions
18 that would be retained by shareholders due to
19 the timing of new rates or for any other reason,
20 and the amount that would be realized by Niagara
21 Mohawk ratepayers. Lastly, in addition to
22 showing savings for Niagara Mohawk ratepayers,
23 the Company should address whether or not the
24 TPO would result in savings to New York State

1 ratepayers in totality. The Company should
2 address the savings and associated rate impacts
3 of utilizing the TPO on KEDNY and KEDLI
4 customers as well.

5 Q. Is this rate proceeding the appropriate venue
6 for determining the reasonableness of the TPO
7 approach?

8 A. No. While the information we are requesting
9 will aid the Commission in determining if the
10 TPO provides benefits for all of National Grid's
11 New York ratepayers, this issue should not be
12 decided in the context of this rate proceeding.

13 Q. Why not?

14 A. As previously stated, the Company is rolling GBE
15 out not only to Niagara Mohawk, but also to
16 KEDNY and KEDLI. As such, the TPO will affect
17 costs and rates at those utilities as well. If
18 the Company intends to pursue this financing
19 option, appropriate notice should be given so
20 that parties in KEDNY and KEDLI, as well as
21 Niagara Mohawk, can participate in the vetting
22 of the TPO.

23 Q. Does this conclude your testimony?

24 A. Yes.