

BEFORE THE
STATE OF NEW YORK
PUBLIC SERVICE COMMISSION

In the Matter of

KeySpan Gas East Corporation d/b/a National Grid and
The Brooklyn Union Gas Company d/b/a National Grid NY

Cases 16-G-0058 and 16-G-0059

May 2016

Prepared Testimony of:

Gas Safety Panel

Christopher Stolicky
Utility Supervisor (Safety)

Suresh Thomas
Utility Engineer 3 (Safety)

Sergey Peschanyy
Utility Engineer 3 (Safety)

Michael Pasinella
Utility Engineer 2 (Safety)

Office of Electric, Gas & Water

State of New York
Department of Public Service
Three Empire State Plaza
Albany, New York 12223-1350

1 Panel Credentials

2 Q. Members of the Panel, please state your names.

3 A. Christopher Stolicky, Suresh Thomas, Sergey
4 Peschanyy, and Michael Pasinella.

5 Q. Mr. Stolicky, please state your business
6 address.

7 A. My business address is New York State Department
8 of Public Service (Department), Three Empire
9 State Plaza, Albany, New York 12223.

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

11 A. I am employed by the Department as a Utility
12 Supervisor (Safety) in the Safety Section of the
13 Office of Electric, Gas, & Water.

14 Q. Please summarize your education and work
15 experience.

16 A. I graduated from Union College in 2000 with a
17 Bachelor degree in Civil Engineering. I
18 received a Master degree in Business
19 Administration from the University at Albany. I
20 have been employed by the Department since
21 January 2001. I work in the Safety Section and
22 I am familiar with federal and state gas safety
23 pipeline codes, statewide risk-based safety
24 performance measures, and with the operations of

1 the major gas utilities in the state. My other
2 duties include interfacing with utility
3 management, working with the United States
4 Department of Transportation Pipeline and
5 Hazardous Materials Safety Administration
6 (PHMSA) regarding interstate pipeline issues,
7 engineering support for the Safety Section field
8 staff, supervision of the Albany and New York
9 City field staff, reviewing possible violations
10 relating to 16 NYCRR Part 753 (Damage
11 Prevention), participating in rate proceedings
12 and negotiations, reviewing proposed pipeline
13 designs, processing petitions and waivers
14 relating to code compliance matters, and
15 reviewing proposed updates to utility operations
16 and maintenance procedures. In addition, I have
17 contributed to and led several significant
18 incident investigations. I have also
19 participated in job rotations and work
20 assignments in the Gas Rates and Gas Policy
21 Sections, where I participated in various rate
22 issues and in the review of utility winter gas
23 supply planning.

24 Q. Mr. Stolicky, have you previously testified in

1 any administrative proceeding?

2 A. Yes. I have testified in numerous rate and
3 merger proceedings. Most recently were the rate
4 case for Niagara Mohawk Power Corporation d/b/a
5 National Grid, 12-G-0202; the merger case for
6 Fortis, Inc. and CH Energy Group, Inc., 12-M-
7 0192; and the rate case for Consolidated Edison
8 of New York, Inc., 13-G-0031.

9 Q. Mr. Thomas, please state your business address.

10 A. My business address is New York State Department
11 of Public Service, 90 Church Street, 4th Floor,
12 New York, New York 10007.

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

14 A. I am employed by the Department of Public
15 Service as a Utility Engineer 3 (Safety) in the
16 Pipeline Safety Section of the Office of
17 Electric, Gas, & Water.

18 Q. Please summarize your education and work
19 experience.

20 A. I graduated from Mahatma Gandhi University in
21 1992 with a Bachelor of Science degree in
22 Mechanical Engineering. I have been employed by
23 the Department since July 2001. I have
24 oversight responsibility for six utility

1 engineers in the New York City Office of the
2 Department. My responsibilities also include
3 utilization of sound engineering practices to
4 review filings of proposed hazardous liquid,
5 natural gas, and steam pipeline construction,
6 operating and maintenance procedures, operator
7 qualification programs, hazardous liquid and gas
8 intrastate and interstate pipeline programs and
9 participation in rate case proceedings. From
10 1999 to July 2001 I worked for the City of New
11 York's Housing Preservation and Development
12 Department as a housing inspector. Prior to
13 that, from 1998 to 1999, I served as an engineer
14 with Valence Technology, Inc. located in Nevada.
15 I worked as a project engineer for Lloyd
16 Insulation Limited from 1995 to 1997 and had
17 oversight on thermal insulation projects related
18 to the petrochemical and power plant industries.
19 Finally, from 1993 to 1994 I participated in a
20 one-year apprenticeship program at a crude oil
21 refinery.

22 Q. Have you previously testified before the
23 Commission?

24 A. Yes. I have testified in the rate case for Sea

1 Cliff Water Company rate case, 02-W-1564, the
2 rate case for Heritage Hills Water Works
3 Corporation rate case, 03-W-1182, the rate cases
4 for Orange and Rockland Utilities, Inc., 05-G-
5 1494, 08-G-1398, and 14-G-0494, and the rate
6 cases for Consolidated Edison Company of New
7 York, Inc., 13-G-0031, and 13-S-0032.

8 Q. Mr. Peschanyy, please state your business
9 address.

10 A. My business address is New York State Department
11 of Public Service, 90 Church Street, 4th Floor,
12 NY 10007.

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

14 A. I am employed by the Department of Public
15 Service as a Utility Engineer 3 (Safety) in the
16 Pipeline Safety Section of the Office of
17 Electric, Gas, & Water.

18 Q. Please summarize your education and work
19 experience.

20 A. I graduated from Polytechnic Institute of New
21 York University in 2010 with a Bachelor of
22 Science Degree in Civil Engineering. I joined
23 the Department in March of 2012. I have a
24 comprehensive knowledge of the Federal and State

1 gas safety pipeline codes and the operations of
2 the major gas utilities in New York State. My
3 duties include: conducting record, field, and
4 construction inspections of local distribution
5 companies (LDCs) and interstate pipeline
6 operators to ensure compliance with Federal and
7 State gas safety pipeline regulations;
8 conducting investigations of pipeline failures
9 and third-party damages; conducting
10 investigations for safety-related customer
11 complaints; reviewing proposed updates to
12 utility operations and maintenance, storm
13 hardening, emergency and other program plans.

14 Q. Have you previously testified before the
15 Commission?

16 A. No.

17 Q. Mr. Pasinella, please state your business
18 address.

19 A. My business address is New York State Department
20 of Public Service, 3 Empire State Plaza, Albany,
21 New York 12223-1350.

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

23 A. I am employed by the Department of Public
24 Service as a Utility Engineer 2 (Safety) in the

1 Pipeline Safety Section of the Office of
2 Electric, Gas, & Water.

3 Q. Please summarize your education and work
4 experience.

5 A. I graduated from Clarkson University in 2009
6 with a Bachelor of Science degree in Civil
7 Engineering. I have been employed by the New
8 York State Department of Public Service since
9 December of 2010. I am familiar with Federal
10 and State gas safety pipeline codes, as well as
11 with the operations of major gas utilities in
12 New York State. My duties include reviewing
13 proposed pipeline designs, reviewing proposed
14 updates to gas utility operations and
15 maintenance procedures, reviewing proposed
16 changes to Federal and State gas safety pipeline
17 codes, and preparing citations for enforcement
18 of probable violations relating to 16 NYCRR Part
19 753, damage prevention. My other duties include
20 conducting record, field, and construction
21 inspections of LDCs and interstate pipeline
22 operators to ensure compliance with Federal and
23 State gas safety pipeline regulations.

24 Q. Have you previously testified before the

1 Commission?

2 A. Yes. I have testified for the Gas Safety Panel
3 in the rate case for Central Hudson Gas &
4 Electric Corporation, 14-G-0319; the rate case
5 for New York State Electric & Gas Corporation,
6 15-G-0284; and the rate case for Rochester Gas &
7 Electric Corporation, 15-G-0286.

8

9 Scope of Testimony

10 Q. What is the purpose of the Gas Safety Panel's
11 testimony in this proceeding?

12 A. The purpose of our testimony is to address
13 KeySpan Gas East Corporation d/b/a National
14 Grid's, KEDLI's, and The Brooklyn Union Gas
15 Company d/b/a National Grid's, KEDNY's, proposed
16 safety performance measures in the areas of
17 infrastructure enhancement, leak management,
18 damage prevention, emergency response, and
19 violations of the pipeline safety regulations.
20 Our testimony will also address the gas safety
21 incentive, first responder communication and
22 training, residential methane detection,
23 compliance related positions, independent
24 compliance assessment, the service line

1 proceeding and replacements, integrity and
2 reliability programs, inactive accounts, roadway
3 depressions, and annual reporting requirements.

4 Q. In your testimony, will you refer to, or
5 otherwise rely upon, any information obtained
6 during the discovery phase of this proceeding?

7 A. Yes, we will refer to, and have relied upon,
8 several responses to Information Requests (IRs)
9 provided by the Companies. These responses are
10 contained within Exhibit__(GSP-1).

11 Q. Is the Panel presenting any other exhibits?

12 A. Yes. Exhibit__(GSP-2) details the high risk and
13 other risk break downs associated with 16 NYCRR
14 Part 255 and 16 NYCRR Part 261. For 49 CFR Part
15 193, and 16 NYCRR Part 259, all sections are
16 deemed high risk.

17 Q. What is the purpose of the performance measures?

18 A. The performance measures ensure that KEDLI and
19 KEDNY maintain their focus on important safety
20 areas and also ensure service reliability. The
21 performance measures are derived from the
22 Companies' actual levels of historic
23 performance, our knowledge of the Companies, and
24 our experience with other LDCs across the state.

1 The performance measures are separate and
2 independent for each KEDNY and KEDLI.

3

4 Infrastructure Enhancement

5 Q. What is meant by infrastructure enhancement?

6 A. By infrastructure enhancement, we mean the
7 Companies' efforts to replace leak prone pipe.

8 Q. What pipe is considered leak prone?

9 A. Leak prone pipe generally includes unprotected
10 steel pipe, cast and/or wrought iron pipe, and
11 some early vintages of plastic pipe that can
12 become brittle. For KEDNY and KEDLI, the
13 population of leak prone pipe generally consists
14 of unprotected steel, wrought iron, cast iron,
15 Aldyl-A plastic.

16 Q. What is meant by the term unprotected?

17 A. Unprotected means that the pipe lacks adequate
18 cathodic protection rendering it susceptible to
19 corrosion. Unprotected steel pipe often has
20 inadequate or no coating, rendering efforts to
21 cathodically protect it ineffective and
22 uneconomical. Such unprotected steel pipe is
23 also referred to as bare steel pipe.

24 Q. How do the leak prone pipe replacement programs

1 add to the safety of the natural gas systems?

2 A. Leaks on underground piping can create safety
3 risks to the public and potentially lead to
4 incidents. Removal or replacement of such leak
5 prone pipe reduces these safety risks.

6 Q. Please explain the importance of removing
7 unprotected, or bare steel, pipe.

8 A. Data collected by the United States Department
9 of Transportation, Office of Pipeline Safety, as
10 well as our own Department, shows that corrosion
11 is a leading cause of leakage and that bare
12 steel pipe is most susceptible to corrosion.
13 This information is publicly available on the
14 Office of Pipeline Safety's "Pipeline Data Mart"
15 website at [https://primis.phmsa.dot.gov/comm/
16 FactSheets/FSCorrosion.htm](https://primis.phmsa.dot.gov/comm/FactSheets/FSCorrosion.htm).

17 Q. How does the removal of cast iron pipe add to
18 the safety of the natural gas system?

19 A. In general, cast iron pipe tends to be brittle,
20 is susceptible to graphitization, a form of
21 corrosion, and has low beam strength. Beam
22 strength refers to the amount of loading a
23 structure can withstand before it fails. Cast
24 iron pipe's low beam strength means that the

1 material can fail if it's subjected to increased
2 loading or a loss of ground support, which makes
3 the material particularly susceptible to
4 stresses from underground disturbances. Such
5 disturbances can include, but are not limited
6 to, ground settlement, freeze-thaw cycles, soil
7 erosion, or nearby excavation activities. Its
8 physical characteristics make it more prone to
9 catastrophic failure than cathodically protected
10 steel and plastic pipe. In addition, cast iron
11 lengths are joined by hub joints with packing
12 material, and unlike welded joints on steel pipe
13 these cast iron joints develop leaks over a
14 period of time. Cast iron pipe tends to be
15 located in densely populated areas where there
16 are many enclosed structures and continuously
17 paved areas. In the event of a major leak or
18 failure, these circumstances may lead to greater
19 volumes of below ground gas migration and expose
20 the public to an increased risk for fires or
21 explosions. The removal of this pipe will
22 reduce the potential for leaks and incidents
23 resulting from potential failures. This will in
24 turn improve public safety.

1 Q. What are other benefits associated with removing
2 leak prone pipe?

3 A. The removal of leak prone pipe should drive down
4 the number of active leaks, will lead to a
5 decline in leakage rates on the distribution
6 systems, and also reduce overtime and operating
7 and maintenance costs associated with responding
8 to leak calls and monitoring leaks.

9 Q. Please describe the leak prone pipe replacement
10 component of the safety performance measures.

11 A. This component is designed to ensure that both
12 KEDNY and KEDLI continue to proactively remove
13 this type of pipe from their systems.
14 Typically, the Companies only proactively remove
15 and replace pipe beyond the requirements of the
16 pipeline safety regulations found in 16 NYCRR
17 Part 255, because of significant customer
18 complaints, or as a result of municipal or state
19 construction projects.

20 Q. Do KEDNY and KEDLI currently have leak prone
21 pipe removal programs?

22 A. Yes.

23 Q. How do KEDNY and KEDLI prioritize the removal of
24 leak prone pipe?

1 A. The pipe to be removed from service is
2 identified and ranked using a risk assessment
3 model-based approach.

4 Q. What is a risk assessment model?

5 A. A risk assessment model prioritizes all segments
6 of leak prone pipe according to attributes that
7 poses the highest associated risk. These models
8 have several weighted factors to determine their
9 ranking such as material type, diameter,
10 pressure, date of installation, etcetera. It is
11 important to note that each Company has unique
12 characteristics and geography that must be
13 considered which prevents a uniform approach, so
14 the model that works for KEDNY may not be
15 appropriate for KEDLI. This risk-based
16 prioritization model ranks segments of pipe for
17 removal so that pipe that presents the greatest
18 risk to the public is removed from service
19 before lower risk pipe. This allows the
20 Companies to focus resources on segments with
21 the highest risk, providing the greatest level
22 of safety to the public.

23 Q. What current leak prone pipe replacement
24 requirements do KEDNY and KEDLI have?

1 A. KEDNY and KEDLI are required to remove annually
2 a minimum of 40 miles and 50 miles of leak prone
3 main, respectively. KEDLI is also required to
4 remove a minimum of 4,000 leak prone services
5 each year.

6 Q. For the previous three years, 2013 through 2015,
7 how many miles of leak prone main on average
8 have KEDNY and KEDLI removed?

9 A. According to DPS-291, Exhibit__(GSP-1), KEDNY
10 has removed 42.3 miles and KEDLI 62.3 miles,
11 respectively, of leak prone main on average for
12 the previous three calendar years. These
13 averages are significantly lower than the newly
14 proposed levels and are reflective of the
15 previously established minimum annual
16 replacement targets.

17 Q. Have the Companies addressed this program in
18 their rate filings?

19 A. Yes. Both Companies proposed to further enhance
20 their leak prone pipe removal programs. These
21 proposed enhancements are consistent with the
22 Commission's goal of increased leak prone pipe
23 replacement rates for all LDCs.

24 Q. Please explain these proposals.

- 1 A. KEDNY proposed to remove a minimum of 45 miles
2 of leak prone main in 2017 and 45 miles in 2018.
3 KEDNY also proposed to replace a minimum of 150
4 miles for the three year period of 2017 through
5 2019. KEDLI proposed to replace a minimum of
6 105 miles of leak prone main in 2017, and 105
7 miles in 2018. KEDLI also proposed to replace a
8 minimum of 345 miles for the three year period
9 of 2017 through 2019. The Companies proposed a
10 Company-specific negative revenue adjustment of
11 eight pre-tax basis points for failure to meet
12 these targets. The Companies also proposed a
13 Company-specific positive revenue adjustment.
- 14 Q. Please describe the Companies proposal for a
15 positive incentive.
- 16 A. The Companies propose a separate mechanism for
17 KEDNY and KEDLI. For every mile in excess of
18 the incentive target the company would earn one
19 pre-tax basis point, with an eight pre-tax basis
20 point cap. Additionally, the costs associated
21 with the replacement of the additional miles
22 would be recovered through a surcharge. Even
23 though they proposed negative revenue
24 adjustments, the Companies then argue that, due

1 to this substantial increase in their respective
2 replacement programs, the associated negative
3 revenue adjustments would be waived should KEDNY
4 or KEDLI fail to meet either of their targeted
5 replacement levels in a given year. This
6 incentive was proposed to serve as a protection
7 for the Companies in the event that, due to
8 circumstances beyond its span of control, would
9 result in a less than desired replacement level.
10 KEDNY also proposes incentive thresholds of 50
11 miles in 2017, 55 miles in 2018, 60 miles in
12 2019, and 65 miles in 2020. KEDLI also proposes
13 incentive thresholds of 115 miles in 2017, 135
14 miles in 2018, 155 miles in 2019, and 175 miles
15 in 2020.

16 Q. Will leak prone services be replaced in
17 conjunction with these newly proposed
18 replacement programs?

19 A. Yes. When replacing leak prone pipe, it is
20 common for companies to group mains and services
21 together within a single project. This grouping
22 results in the most cost efficient approach
23 towards the replacement of leak prone pipe in
24 addition to minimizing the time a customer is

1 without natural gas due to the work.

2 Q. At this proposed replacement rate, how long will
3 it take the Companies to replace all leak prone
4 pipe?

5 A. According to DPS-371, Exhibit__(GSP-1), there
6 will be approximately 1,837 miles and 3,714
7 miles of remaining leak prone pipe within the
8 KEDNY and KEDLI systems, respectively as of
9 December 31, 2016. KEDLI intends to increase
10 its leak prone pipe removal annually, until 2023
11 where it will plateau at 224 miles per year.
12 KEDNY intends to increase its leak prone pipe
13 removal annually, until 2035 where it will have
14 removed all of its' targeted pipe. Both
15 Companies intend to replace all of their leak
16 prone pipe by 2035.

17 Q. Does the Panel agree with the Companies'
18 proposal?

19 A. In part. We agree with the Companies that
20 funding should be increased so that they can
21 accelerate their leak prone pipe removal
22 programs. However, reaching the goal set by the
23 Commission should be of the utmost importance.
24 Also, we still consider pipe that has been

1 treated under the Companies' proposed CISBOT and
2 cured-in-place lining programs to be leak prone,
3 and therefore must ultimately be replaced as
4 part of the Companies' leak prone pipe
5 replacement program. Therefore, we propose that
6 the removal targets be further increased to a
7 minimum of 55 miles in 2017, 60 miles in 2018,
8 and 65 miles in 2019 for KEDNY, and a minimum of
9 115 miles in 2017, 135 miles in 2018, and 155
10 miles in 2019 for KEDLI. Also, the Commission
11 should require both KEDNY and KEDLI to replace
12 leak prone services in conjunction with the
13 associated mains. As the Company replaces the
14 mains and services, it should be required to
15 ensure that its meters are installed in a
16 readily accessible location and be protected
17 from corrosion and other damage, preferably
18 located outside.

19 Q. Given that Staff is testifying to a single rate
20 year, why is a multi-year approach to this
21 program appropriate?

22 A. Due to the complexity of the leak prone pipe
23 replacement programs, utilizing a multi-year
24 approach allows the Companies with flexibility

1 so that they can strategically manage their
2 programs more efficiently. It also ensures that
3 steps can be taken to assure adequate qualified
4 personnel are available to meet the increased
5 targets.

6 Q. Do you agree that the Companies should be
7 subject to a negative revenue adjustment for
8 failure to meet remove at least these minimum
9 amounts?

10 A. Yes. We recommend separate mechanisms for each
11 company. The mechanism would require that eight
12 pre-tax basis points be owed to customers for
13 failure to meet the annual targets. In
14 recognition that external factors may hinder the
15 Companies' efforts in a single year, should
16 either Company fail to meet its respective
17 annual targets that Company should be allowed to
18 rely on a cumulative three year target, 180
19 miles for KEDNY, and 405 miles for KEDLI.
20 Should a company rely on the cumulative target
21 in lieu of the annual targets, a total of 24
22 pre-tax basis points would be owed to the
23 customers for failure to meet that cumulative
24 target.

- 1 Q. Does the Panel propose a positive revenue
2 adjustment for exceeding the replacement
3 targets?
- 4 A. Yes. We propose separate positive revenue
5 adjustments for each Company of two pre-tax
6 basis points for each full mile of leak prone
7 main replaced beyond the annual minimum targets.
8 However, a company would only receive the
9 incentive if it meets minimum targets in each
10 rate year. We recommend capping this incentive
11 at 10 pre-tax basis points per Company per year.
12 Should either Company opt to meet the cumulative
13 target in lieu of the annual targets, the
14 positive revenue adjustment would not be
15 available.
- 16 Q. How will the leak prone pipe replacement costs
17 and associated surcharges be handled?
- 18 A. The costs and associated surcharges related to
19 the increase in leak prone pipe replacement will
20 be addressed by the Staff Gas Infrastructure and
21 Operations, and Staff Gas Rates Panels.
- 22 Q. Will the mileage target work with the Companies'
23 risk assessment models?
- 24 A. Yes. We expect the Companies will continue to

1 use their risk assessment models to rank
2 segments of pipe for replacement so that the
3 highest risk pipe that presents the greatest
4 risk to the public is removed prior to lower
5 risk pipe. However, the Companies should have
6 the flexibility to allow for opportunistic
7 replacements, such as neighborhood approaches,
8 or in conjunction with other entities, but
9 overall risk reduction should still remain a
10 driver of the replacement program. In other
11 words, if using the neighborhood approach, areas
12 replaced should contain high risk segments.

13 Q. Do you have any other recommendations regarding
14 the removal of leak prone pipe?

15 A. Yes. KEDNY and KEDLI should both perform
16 inspections on newly installed pipelines to
17 ensure that they are completed in accordance
18 with applicable procedures and regulations. We
19 recommend that KEDNY and KEDLI increase onsite
20 inspections adequate for the total leak prone
21 pipe replacement targets and assure that the
22 quality of pipe going into service meets
23 workmanship and installation expectations.

24 Q. Are there any other conditions that either KEDNY

1 or KEDLI should meet pertaining to your safety
2 related recommendations?

3 A. Yes. We recommend that the Commission direct
4 KEDNY and KEDLI each to submit a quarterly
5 report to the Secretary of the Commission
6 detailing their respective leak prone pipe
7 replacement progress. This report, at a
8 minimum, should be required to include material
9 type, mileage, project location, rank of the
10 segment replaced at the time of replacement
11 using the risk based model, project cost, and
12 include a forecast of the scheduled leak prone
13 pipe replacement projects and their rank on risk
14 based replacement model for the upcoming
15 quarter. The report should also be required to
16 include a reconciliation of proposed
17 replacements versus what was actually replaced.
18 The Companies should be required to submit these
19 quarterly reports no later than thirty days
20 after the end of the quarterly reporting periods
21 ending March 31st, June 30th, September 30th,
22 and December 31st.
23
24

1 Leak Management

2 Q. What does the Panel mean by the term leak
3 management?

4 A. Leak management refers to the utilities ability
5 to monitor and repair existing and newly found
6 leaks on their natural gas systems.

7 Q. Do KEDNY and KEDLI currently have safety related
8 targets for leak management?

9 A. Yes. KEDNY has a total leak backlog target and
10 KEDLI has a repairable leak backlog target.

11 Q. Is there an associated negative revenue
12 adjustment for failure to meet the leak
13 management targets?

14 A. Yes. If either KEDNY or KEDLI fail to meet its
15 target, it owes a total of 12 pre-tax basis
16 points.

17 Q. What is the difference between the total and
18 repairable leak management targets?

19 A. Total leak management targets encompass Type 1,
20 Type 2A, Type 2, and Type 3 leaks as defined by
21 16 NYCRR 255.811, 16 NYCRR 255.813, 16 NYCRR
22 255.815, and 16 NYCRR 255.817, respectively.
23 Repairable leak management targets exclude Type
24 3 leaks because they are considered non-

1 hazardous and reasonably expected to remain that
2 way.

3 Q. Have either KEDNY or KEDLI proposed to update or
4 modify their respective leak management targets?

5 A. Yes. The Companies proposed to set targets for
6 both total and repairable leak backlogs. KEDNY
7 proposed to reduce its total backlog by an
8 average of 100 leaks per year and KEDLI by an
9 average of 500 leaks per year. Both Companies
10 propose to be allowed to maintain a backlog of
11 no more than 30 repairable leaks per year.

12 Q. Have either KEDNY or KEDLI proposed to update or
13 modify the associated negative revenue
14 adjustments?

15 A. Yes. The Companies propose to maintain the
16 total associated negative revenue adjustment of
17 12 basis points for each, KEDNY and KEDLI.
18 However, they propose that four of the 12 basis
19 points be appropriated to the total leak backlog
20 target, and eight basis points to the repairable
21 leak backlog target.

22 Q. Did the Companies make any other proposals
23 related to leak management?

24 A. Yes. The Companies propose to adjust the annual

1 leak targets based on the number of frost degree
2 days in a given year. They also propose to
3 recover the costs associated with the repair of
4 up to an additional 50 leaks, based on the
5 average per unit incremental repair cost.

6 Q. For both the total and repairable leak backlogs,
7 how have the Companies performed in recent
8 years?

9 A. Both KEDNY and KEDLI have demonstrated the
10 ability to reduce their respective total and
11 repairable leak backlogs. For the previous five
12 years, 2011 through 2015, KEDNY and KEDLI have
13 averaged a total backlog of approximately 4,047
14 and 12,539 leaks, respectively. Similarly, the
15 Companies have averaged a repairable leak
16 backlog of approximately 65 and 19 leaks,
17 respectively.

18 Q. What was the average leak backlog reduction for
19 both Companies in the recent years?

20 A. For the previous four years, 2012 through 2015,
21 on average KEDLI reduced the leak backlog by 659
22 leaks per year. For the year 2012, the leak
23 backlog for KEDNY increased by 509 leaks and is
24 an outlier in the historic data. For the

1 previous three years, 2013 through 2015, on
2 average KEDNY reduced the leak backlog by 123
3 leaks per year.

4 Q. How did the Companies perform in 2015?

5 A. According to DPS-260, Exhibit__(GSP-1), KEDNY
6 and KEDLI have total leak backlogs of 3,820 and
7 11,330, respectively. KEDNY and KEDLI have
8 repairable leak backlogs of 21 and five,
9 respectively.

10 Q. What does the Panel recommend?

11 A. Based on previous years' leak reduction averages
12 and significant increases in main replacement
13 targets for rate years 2017, 2018, and 2019 we
14 recommend the following. For KEDNY, we
15 recommend that beginning in 2017 the backlog of
16 total leaks be reduced by 150 leaks per year.
17 For KEDLI, we similarly recommend the backlog of
18 total leaks be reduced by 750 leaks per year.
19 In establishing these targets, we recommend the
20 baseline for KEDNY and KEDLI be set at 3,650 and
21 10,700 total leaks, respectively for the
22 beginning of the rate year, January 1, 2017.
23 Correspondingly, the 2017 year-end backlog
24 targets will be 3,500 for KEDNY and 9,950 for

1 KEDLI. For both KEDNY and KEDLI, we recommend
2 maintaining a backlog of less than 25 repairable
3 leaks at calendar year end.

4 Q. Do you recommend an associated negative revenue
5 adjustment for failure to meet these backlog
6 targets?

7 A. Yes. We concur with the Companies that the
8 total adjustment of 12 basis points per Company
9 be split between the total and repairable
10 targets. However, we recommend an equal
11 proportion of six pre-tax basis points be owed
12 to the customers should KEDNY or KEDLI fail to
13 meet either their total or repairable leak
14 backlog targets.

15 Q. Do you recommend an associated positive revenue
16 adjustment for the leak management measure?

17 A. No. However, the Staff Policy Panel will
18 address an incentive related to an increase in
19 the Companies' repair of Type 3 leaks.

20 Q. Why are these leak management targets
21 reasonable?

22 A. Both KEDNY and KEDLI have made significant
23 increases to their leak prone pipe replacement
24 targets. The Companies' use both historic and

1 active leaks as weighted factors when
2 prioritizing segments within the Companies risk
3 assessment models. Thus, replacement of leak
4 prone pipe alone should drive leak rates down.
5 As more and more of the system includes newly
6 installed piping, reductions in leak inventory
7 should be easier to attain.

8 Q. Should either the targets, or the negative
9 revenue adjustments expire?

10 A. No. These targets and associated adjustments
11 should remain in effect until changed by the
12 Commission.

13

14 Damage Prevention

15 Q. What does the Panel mean by Damage Prevention?

16 A. Both KEDNY and KEDLI respond to calls regarding,
17 and perform many repairs, each year caused by
18 excavation damage to their underground
19 facilities. Any damage to a pipeline can result
20 in the uncontrollable release of natural gas and
21 could potentially lead to an incident. Damage
22 prevention refers to the Companies' ability to
23 minimize damage to their systems caused by
24 excavation.

1 Q. Please describe the performance measures related
2 to the prevention of excavation damage.

3 A. In order to encourage the Companies to
4 continuously strive to improve their
5 performance, targets for damages caused by
6 mismarks, Company and Company contractors, and
7 total damages per 1,000 one-call tickets were
8 established in previous rate orders to measure
9 the Companies' progress in minimizing damage to
10 their underground pipeline facilities. The
11 total damage category includes damages caused by
12 mismarks, those caused by Company and Company
13 contractors, and those caused by excavator error
14 or those where no notification was made by an
15 excavator.

16 Q. What is a one-call ticket?

17 A. The Commission's pipeline safety regulations
18 contained in 16 NYCRR Part 753, Protection of
19 Underground Facilities, require excavators to
20 make a toll-free call to a one-call notification
21 system and provide notice of their intent to
22 perform excavation work. The one-call
23 notification system that covers both KEDNY's and
24 KEDLI's service territory is New York 811. New

1 York 811 takes the pertinent information from
2 the excavator and transmits it to the member
3 utilities that may be affected by the excavation
4 work. Those utilities then mark the location of
5 their affected facilities so the excavator can
6 take needed precautions to avoid damaging them.
7 Each incoming call to New York 811 will generate
8 several outgoing notices to the member utilities
9 such as the gas, electric, telephone, cable,
10 water, and sewer companies. A notice received
11 by the utility is referred to as a one-call
12 ticket.

13 Q. What is a mismark?

14 A. A mismark occurs when a utility fails to
15 accurately mark the location of its underground
16 facilities in response to the one-call ticket.
17 Consistent with the requirements of 16 NYCRR
18 Part 753 and for the purpose of this performance
19 measure, a mismark is considered any instance
20 where the markings are off by more than two
21 feet. It also includes any instances where the
22 utility fails to mark its facilities in response
23 to a properly requested one-call ticket.

24 Q. What are damages by Company and Company

1 contractors?

2 A. These are damages to the Companies' facilities
3 that are caused by Company personnel, or by
4 contractors that are directly working for the
5 Company.

6 Q. How does prevention of excavation damage benefit
7 public safety?

8 A. These damages often cause interruptions of
9 service to customers, building evacuations, and
10 road closures. Explosions and fires are less
11 frequent, but have occurred. Fatalities and
12 injuries due to third-party excavation damages
13 are also a possibility. Therefore, reducing
14 these types of damages improves public safety.

15 Q. Do KEDNY and KEDLI currently have safety related
16 targets associated with damage prevention?

17 A. Yes.

18 Q. Have the Companies proposed any changes to their
19 current damage prevention targets?

20 A. Yes. The Companies proposed to tighten their
21 mismatch, Company and Company contractor, and
22 total damage targets for the 2017 calendar year.
23 They proposed an additional 2% improvement in
24 the targets for subsequent years. The

1 associated negative revenue adjustments would
2 remain the same at 18 pre-tax basis points being
3 owed to the customers should the Companies fail
4 to meet either of these targets.

5 Q. Have the Companies proposed an associated
6 positive revenue adjustment for the damage
7 prevention measure?

8 A. Yes. The Companies propose that improvement by
9 greater than 10% in a given year would earn the
10 Company an incentive.

11 Q. Describe the Companies' historical performance
12 as it relates to damage prevention.

13 A. For the previous five-years, 2010 through 2014,
14 KEDNY has averaged 0.43 for damages due to
15 mismarks, 0.04 for damages due to Company and
16 Company contractors, and 1.85 for total damages
17 per 1,000 one-call tickets. KEDLI has averaged
18 0.55 for damages due to mismarks, 0.02 for
19 damages due to Company and Company contractors,
20 and 2.20 for total damages per 1,000 one-call
21 tickets. The Companies' historical performance
22 is well documented in the most recent Gas Safety
23 Performance Measures Report, filed in Case 15-G-
24 0248, and can be obtained from the Commission's

1 website.

2 Q. Please describe the Gas Safety Performance
3 Measures Report.

4 A. The Gas Safety Performance Measures Report is an
5 annual report presented by Department Staff to
6 the Commission. The report summarizes data and
7 analyzes performance in three areas of gas
8 safety: Damage Prevention, Emergency Response,
9 and Leak Management. It also contains data from
10 subsets of those areas, resulting in a more
11 thorough analysis, and is used as a tool to
12 track and identify LDC's performance in areas
13 widely identified as high-risk. When an LDC's
14 performance notably varies from the statewide
15 performance in a particular area that LDC is
16 recommended to institute incremental changes to
17 improve performance.

18 Q. Has either KEDNY or KEDLI been identified as an
19 LDC in need of improvement in damage prevention?

20 A. Yes.

21 Q. In which areas(s) of damage prevention?

22 A. In 2014, the most recent data available, KEDLI
23 was identified as a poor performer in the area
24 of Company and Company contractor damages. This

1 identification was given to KEDLI due to the
2 sheer volume of damages. However, when looking
3 at the number of damages per 1,000 one-call
4 tickets, KEDLI out performs the statewide level
5 in this category.

6 Q. What was the statewide performance level for
7 damages due to mismarks, damages due to Company
8 and Company contractors, and total damages per
9 1,000 one-call tickets in 2014?

10 A. In 2014, the statewide performance level was
11 0.37 for damages due to mismarks, 0.08 for
12 damages due to Company and Company contractors,
13 and 1.71 for total damages per 1,000 one-call
14 tickets.

15 Q. How have the Companies performed in comparison
16 to the statewide performance?

17 A. KEDNY currently out performs the statewide
18 levels for the damage prevention categories
19 targeted. KEDLI out performs the statewide
20 level for Company and Company contractor
21 damages. However, for damages due to mismarks
22 and for total damages, KEDLI's 2014 performance
23 is equal to 0.45 and 1.90, respectively. It is
24 important to note that for damages resulting

1 where no notification was made to the one-call
2 system, KEDLI's performance is nearly twice as
3 worse than that of the statewide level.

4 Q. What does the Panel recommend?

5 A. We recommend that each Company have the same
6 targets, 0.37, 0.08, and 1.71 for damages due to
7 mismarks, Company and Company contractors, and
8 total damages, respectively. The Companies'
9 reporting of their performance on these measures
10 should be required to be in compliance with that
11 of the most recent Gas Safety guidance.

12 Q. Please explain how the Panel derived these
13 targets.

14 A. We chose our recommended targets based on the
15 2014 statewide levels for all three of the
16 damage prevention areas identified. In most
17 areas, the Companies are performing at higher
18 levels so by setting these new targets, it will
19 encourage the Companies to maintain their
20 current levels of performance.

21 Q. Why are these targets reasonable?

22 A. We believe that with the total volume of
23 notifications being made within the Company's
24 service territories, and the inherent risk

1 associated with said excavation work, public
2 safety should be of the utmost importance. We
3 support the additional full time equivalent
4 damage prevention advisors, as requested by the
5 Companies, to assist with achieving these
6 targets. In addition, as the Companies replace
7 older leak prone pipe, damages due to mismarks
8 should fall as it is the older pipe for which
9 the Companies have incomplete records, including
10 location information. This older pipe is being
11 replaced by pipe for which the Companies know
12 the exact locations, including rise and run,
13 allowing the Companies to use updated and
14 accurate mapping during the mark-out process.

15 Q. Are damages due to mismarks, and Company and
16 Company contractors within the control of the
17 Companies?

18 A. Yes.

19 Q. Are total damages?

20 A. Not entirely. Specifically, damages caused by
21 excavator failure to notify New York 811,
22 sometimes referred to as no-calls, and/or unsafe
23 excavation practices are not totally within the
24 control of the Companies. However, the

1 Companies can minimize these damages by
2 influencing excavator activity through education
3 and outreach efforts to excavators, by
4 continuing to bill excavators for repair costs
5 when the excavator is at fault, and by referring
6 problem contractors to Department Staff for
7 enforcement purposes. In addition, both KEDNY
8 and KEDLI should consider developing best
9 practices, in conjunction with other companies
10 affiliated with the Northeast Gas Association
11 and/or other trade associations.

12 Q. Are damages due to no-calls a component of the
13 overall damage measures?

14 A. Yes. Damages due to no-calls are simply
15 instances where the excavator fails to provide
16 notice of intent to excavate to the one-call
17 notification system, and thus no ticket is
18 generated. This measure is part of the total
19 damages and provides an indication of the
20 general level of awareness excavators have about
21 the one-call notification system.

22 Q. How does Staff assist LDCs with their damage
23 prevention requirements?

24 A. Department Staff has been conducting an

1 enforcement program involving collection of
2 penalties for violations of the Commission's
3 damage prevention regulations for approximately
4 18 years. In 2007, this program was expanded by
5 having gas LDCs report all instances of damage
6 due no-calls. Damages due to no-calls are the
7 most straight forward violations of 16 NYCRR
8 Part 753 to enforce. LDC participation takes
9 little effort and results in greater enforcement
10 and eventual lower damage rates to underground
11 pipeline facilities. This joint effort has led
12 to a significant decline in damages due to no-
13 calls over the years, as explained in the most
14 recent Gas Safety Performance Measures report.
15 In addition, when promptly notified and
16 available, Staff provides aid to LDCs in working
17 with problem excavators.

18 Q. Do the recommended targets for total damages per
19 1,000 one-call tickets include damages due to
20 mismarks and Company and Company contractors?

21 A. Yes.

22 Q. Why do you recommend this approach?

23 A. This approach ensures that, even if it appears
24 that damages due to mismarks and Company and

1 Company contractors will not be met in a given
2 year, the Companies will still have an incentive
3 to keep such damages as low as possible because
4 of this combined total damages metric.

5 Q. Does the Panel recommend an associated negative
6 revenue adjustment for failure to achieve these
7 targets?

8 A. Yes. We recommend that KEDNY and KEDLI each be
9 subject to a negative revenue adjustment of 18
10 pre-tax basis points, which would be owed to the
11 customers should that company fail to achieve
12 the recommended damage prevention targets. The
13 breakdown should be as follows: 10 pre-tax basis
14 points for damages due to mismarks, four for
15 damages due to Company and Company contractors,
16 and four for total damages.

17 Q. Does the Panel recommend an associated positive
18 revenue adjustment for the damage prevention
19 measure?

20 A. No.

21 Q. Should either the targets, or the negative
22 revenue adjustments expire?

23 A. No. These targets and associated adjustments
24 should remain in effect until changed by the

1 Commission.

2

3 Emergency Response

4 Q. Please describe the emergency response
5 performance measures as followed by KEDNY,
6 KEDLI, and other LDCs in the state.

7 A. These measures evaluate utility response to gas
8 leak, odor and emergency calls generated by the
9 public and non-Company personnel. Each gas
10 utility is required by the gas safety
11 regulations to provide a monthly report of the
12 total number of calls received and responded to
13 in intervals of fifteen minutes during normal
14 business hours, weekdays outside of normal
15 business hours, weekends, and holidays. These
16 measures, in addition to Leak Management and
17 Damage Prevention, are included in the annual
18 Gas Safety Performance Measures report.
19 Statewide standards for the emergency response
20 performance measures have been jointly
21 established by Staff and LDCs within individual
22 rate cases as follows: respond to 75% of all gas
23 leak and odor calls within 30 minutes; respond
24 to 90% of all gas leak and odor calls within 45

1 minutes; and respond to 95% of all gas leak and
2 odor calls within 60 minutes.

3 Q. What is the significance of the emergency
4 response performance measure?

5 A. Leaks on inside piping, improperly operated or
6 installed appliances, and gas migration into a
7 building from leaks on outside buried piping
8 presents a risk to the general public. The
9 utility recognizes this and dispatches personnel
10 on a priority basis in response to calls
11 reporting gas leaks or odors. The LDCs are
12 required to maintain a log of such calls and
13 track the elapsed time between dispatch and
14 arrival times of qualified service personnel
15 responding to the scene. As the LDCs response
16 time lengthens, the potential for the
17 development of a serious incident or safety
18 threat to the general public increases.
19 Therefore, it is important that LDCs minimize
20 their response times for gas leaks or odors
21 calls.

22 Q. Do KEDNY and KEDLI currently have a target for
23 emergency response performance?

24 A. Yes. Both KEDNY and KEDLI are required to

1 respond to 75% of leak and odor calls within 30
2 minutes, 90% of leak and odor calls within 45
3 minutes, and 95% of leak and odor calls within
4 60 minutes. Failure to meet the 30, 45, or 60
5 minute measures results in a negative revenue
6 adjustment owed to the customers. For KEDNY,
7 the adjustment is equal to six, four, and two
8 pre-tax basis points, respectively. For KEDLI,
9 the adjustment is equal to \$600,000, \$360,000,
10 and \$240,000, respectively.

11 Q. Have the Companies proposed any changes to their
12 current emergency response targets?

13 A. Both Companies proposed keeping the current
14 minimum targets and associated negative revenue
15 adjustments. In addition, both Companies
16 proposed an exclusion of gas leak and odor calls
17 resulting from mass area odor complaints,
18 significant weather related occurrences, or
19 major equipment failures.

20 Q. How have KEDNY and KEDLI performed in its
21 emergency response efforts?

22 A. From 2010 through 2014, both KEDNY and KEDLI
23 have met the established minimum levels.

24 Q. What does the Panel recommend?

1 A. We recommend that both KEDNY and KEDLI be
2 required to respond to 75%, 90%, and 95% of all
3 gas leak and odor calls within 30, 45, and 60
4 minutes, respectively. Any gas leak and odor
5 calls resulting from mass area odor complaints,
6 significant weather related occurrences, or
7 major equipment failures should not be excluded
8 from these counts.

9 Q. Would there be an associated negative revenue
10 adjustment for failing to meet this measure?

11 A. Yes. Failure to meet either of the 30, 45, and
12 60 minute targets would result in a negative
13 revenue adjustment owed to customers of six,
14 four, and two pre-tax basis points,
15 respectively, for each Company.

16 Q. Would the targets and associated negative
17 revenue adjustments expire under Staff's
18 proposal?

19 A. No. The targets and adjustments should remain
20 in effect until changed by the Commission.

21

22 Violations of Safety Regulations

23 Q. Does the Panel have any concerns with either
24 KEDNY's or KEDLI's compliance with the

1 Commission's pipeline safety regulations?

2 A. Yes. We are concerned with general non-
3 compliance with the Commission's pipeline safety
4 rules and regulations contained in 16 NYCRR
5 Parts 255, 259, and 261.

6 Q. How are these violations identified?

7 A. Department Staff conducts record and field
8 audits of KEDNY and KEDLI on an annual basis.
9 Staff also investigates incidents involving the
10 Companies' natural gas facilities. Typically,
11 when Staff discovers an instance of non-
12 compliance with the Commission's pipeline safety
13 regulations, a compliance meeting is held with
14 the Company detailing the code sections related
15 to the instances of non-compliance.

16 Q. What is the purpose of the compliance meeting?

17 A. The compliance meeting is an opportunity for the
18 Company to provide information to clarify any
19 deficiencies found. Information clarifying
20 these deficiencies might include providing
21 further explanation to inquiries, or providing
22 records that were not available at the time of
23 the audit.

24 Q. How long does a Company have to provide this

1 information?

2 A. A Company is required to provide this
3 information within five business days of the
4 compliance meeting. After the five business day
5 period, Staff reviews the information and
6 subsequently issues a formal letter detailing
7 the specifics of the violations as it relates to
8 the regulations.

9 Q. Does KEDNY currently have a violation target?

10 A. Yes.

11 Q. Does KEDLI currently have a violation target?

12 A. No.

13 Q. Has either Company proposed modifications to or
14 a new violation measure?

15 A. KEDNY proposed modifications to its existing
16 measure. Specifically, KEDNY proposed lower
17 financial exposure limits associated with
18 failure to meet their targets, total violation
19 caps for a particular code section or regulation
20 to also lower their financial exposure limits,
21 and an incentive to not be penalized for self-
22 reported violations. Also, KEDNY would like to
23 rework the categorizations of violations. KEDLI
24 did not propose a new violation measure.

1 Q. What is the difference between a violation and
2 an occurrence?

3 A. Historically, audit letters outline findings
4 which note a violation of a specific
5 requirement, and then associated it with the
6 total number of occurrences found. The term
7 violation is commonly referred to in discussions
8 and is widely understood within the pipeline
9 industry. Thus, for the purpose of this
10 measure, there is no difference between a
11 violation and an occurrence. These words are
12 and can be used interchangeably. Staff
13 considers both terms as an instance of non-
14 compliance with the Commission's pipeline safety
15 regulations.

16 Q. How does the Panel account for violations in
17 which a record cannot be provided by the
18 Companies?

19 A. We will continue to consider it a standing
20 violation when any records requested by Staff
21 during its audits are either not provided or are
22 found to be incorrect. This definition of a
23 records violation will apply to situations where
24 KEDNY and KEDLI attempt to provide missing or

1 correct records after the five business days
2 following the compliance meeting. An official
3 Company record is each Company's sole vehicle to
4 demonstrate compliance.

5 Q. Does the Panel categorize violations?

6 A. Yes. We have two categories which are based on
7 the likelihood of risk to public safety
8 resulting from a violation of the regulations.
9 The two categories of violations are high and
10 other risk. High risk refers to code
11 requirements that, if not followed, lead to a
12 greater likelihood of an adverse impact on
13 public safety with regard to loss of life or
14 property and damage to the environment. We
15 consider all violations occurring at a Liquefied
16 Natural Gas plant to be high risk. The
17 breakdown of code sections are provided in
18 Exhibit__(GSP-2).

19 Q. For the past five years, 2011 through 2015, on
20 average how many violations of the Commission's
21 pipeline safety regulations have KEDNY and KEDLI
22 been cited for by gas safety Staff?

23 A. On average, from 2011 through 2015, Staff has
24 identified an average total of 65 and 47 high

1 risk violations for KEDNY and KEDLI,
2 respectively. For other risk violations, Staff
3 has identified an average total of 74 and 277
4 violations, respectively.

5 Q. What were the negative revenue adjustments for
6 KEDNY based on its' performance in 2013, and
7 2014?

8 A. Based on the violations identified in Staff's
9 audit reports, KEDNY's performance resulted in a
10 negative revenue adjustment of 15 pre-tax basis
11 points in 2013, and 30 pre-tax basis points in
12 2014, for a total exposure of 45 pre-tax basis
13 points, or approximately \$10,800,000.

14 Q. How should these adjustments be treated?

15 A. At this juncture, it is appropriate to defer the
16 above adjustments. At a later date, the monies
17 should be used to offset costs associated with
18 safety related programs. We recommend that
19 KEDNY be required to seek Commission approval
20 prior to allocating these funds.

21 Q. Does the Panel find the Companies' performance
22 of compliance with the regulations acceptable?

23 A. No. We are concerned with both Companies'
24 performance. Any number of violations can

1 indicate a lack of the Companies' control, an
2 issue with internal quality assurance, or a
3 culture that is willing to accept a level of
4 non-compliance with the regulations. This
5 culture is further demonstrated by the
6 Companies' repeated inability to promptly
7 respond to Staff's audit letters. In addition,
8 many of the Companies' responses to violations
9 simply indicate that they will "re-train" or
10 "counsel" employees. After several years of
11 these typical responses, it is clear that these
12 responses are generally ineffective, evidenced
13 by the fact that the Companies continue to have
14 difficulty complying with the minimum pipeline
15 safety regulations, some of which have been in
16 place for over 40 years.

17 Q. What does the Panel recommend?

18 A. We recommend the continuation of the violation
19 performance measure for KEDNY and the creation
20 of one for KEDLI. We also recommend the
21 inclusion of Liquefied Natural Gas Plant audit
22 findings from Staff's annual audits under 49 CFR
23 Part 193, and 16 NYCRR Part 259. Any violations
24 identified under these sections would be deemed

1 high risk. For high risk violations, each
2 occurrence of non-compliance would result in one
3 pre-tax basis point being owed to the customers.
4 For other risk violation, one-third of one pre-
5 tax basis point would be owed for each
6 occurrence.

7 Q. Does the Panel recommend any positive revenue
8 adjustments?

9 A. No positive revenue adjustments would be given
10 to the Companies for this performance measure as
11 these audits are focused on complying with the
12 minimum pipeline safety requirements.

13 Q. Should either KEDNY or KEDLI be excused from
14 associated negative revenue adjustments for the
15 self-reporting of violations?

16 A. No. However, self-reporting of violations could
17 be a consideration in the determination of an
18 administrative sanctions proceeding under Public
19 Service Law Section 25-a.

20 Q. Does the Panel recommend capping the associated
21 negative revenue adjustments for violations of a
22 particular code section?

23 A. Yes. We recommend capping the total violation
24 count at ten for each of the code sections

1 identified in Exhibit__(GSP-2), 49 CFR Part 193,
2 and 16 NYCRR Part 259.

3 Q. Does this mean that, if there are more than ten
4 violations of any given code section,
5 enforcement will not be pursued?

6 A. No. We consider more than ten violations of a
7 single code section to be gross non-compliance,
8 for which additional action needs to be taken.
9 Should KEDNY or KEDLI incur more than ten
10 violations of a single code section that Company
11 should file with the Commission a plan for
12 remediation explaining how it will ensure that
13 compliance issues are addressed and resolved.
14 This plan should include dates by which all
15 cited violations will be brought into
16 compliance, or, where appropriate, when remedial
17 actions will be put in place to mitigate
18 reoccurrence. If needed, such a filing should
19 be required to be made within 90 days of
20 receiving Staff's audit letter. In addition, we
21 note that Public Service Law Section 25-a
22 provides for administrative sanctions, which may
23 be appropriate in instances where KEDNY or KEDLI
24 exceed ten violations of a given code section,

1 specifically if one (or more) of the violations
2 lead to injury or significant property damage.

3 Q. When should this measure commence?

4 A. For KEDNY, this measure is a continuation of an
5 existing measure, and for KEDLI this is a new
6 measure. For both, the measures as set forth in
7 our testimony should take effect on January 1,
8 2017.

9 Q. Should this measure expire?

10 A. No. This measure should remain in effect until
11 changed by the Commission.

12 Q. Why does the Panel recommend this measure?

13 A. First, the performance measure provides a
14 financial disincentive for non-compliance with
15 the Commission's pipeline safety regulations.
16 Second, it is critical for the Commission to be
17 able to address all violations of the pipeline
18 safety regulations where the potential exists
19 for serious harm, or even death. As occurrences
20 of violations can be clearly demonstrated, this
21 measure should be automatic and avoid the need
22 for formal, intensive penalty actions against
23 KEDNY and KEDLI for every occurrence of non-
24 compliance. Note, however, that the Commission

1 always has the authority to pursue a penalty
2 action notwithstanding the existence of a
3 violations measure.

4 Q. Please provide an example of how this violation
5 measure would work.

6 A. Let us assume the field audit letter details a
7 total of five occurrences of high risk and 20
8 occurrences of other risk violations. The
9 record audit letter for that same period details
10 a total of 30 occurrences of high risk and 40
11 occurrences of other risk violations. Also noted
12 in the Liquefied Natural Gas plant audit were 10
13 occurrences of high risk violations. The 45
14 high risk violations would result in a negative
15 revenue adjustment of 45 pre-tax basis points
16 owed to the customers. The 60 other risk
17 violations would result in an additional
18 negative revenue adjustment of 20 pre-tax basis
19 points owed to the customers. The resultant
20 exposure would be 65 pre-tax basis points.

21 Q. Are there any other LDCs in the state subjected
22 to a violation performance measure?

23 A. Yes, Corning Natural Gas Corporation, Niagara
24 Mohawk Power Corporation d/b/a National Grid,

1 Central Hudson Gas and Electric Corporation,
2 Consolidated Edison of New York, Inc., National
3 Fuel Gas Distribution Corporation and Orange and
4 Rockland Utilities, Inc. all are subject to a
5 violation performance measure.

6

7 Gas Safety Incentive

8 Q. What is the Gas Safety Incentive?

9 A. Both KEDNY and KEDLI proposed a new incentive to
10 promote the development and deployment of new
11 safety programs and technology.

12 Q. How would this new Gas Safety Incentive work?

13 A. Prior to the beginning of each year the
14 Companies would meet with Staff to identify a
15 new set of programs to be delivered in the
16 coming year. Both KEDNY and KEDLI could earn an
17 incentive of up to 10 pre-tax basis points for
18 successfully reaching their respective targets.

19 Q. Have either KEDNY or KEDLI identified specific
20 programs to be considered for this incentive?

21 A. According to DPS-290, Exhibit__(GSP-1), the
22 Companies deferred specifics until such time
23 that they and Staff could meet to collaborate.
24 However, the Companies did provide examples of

1 potential programs to be utilized such as
2 methane detection, remote shut off valves, and
3 first responder training programs. All of which
4 are currently being addressed in this
5 proceeding.

6 Q. What does this Panel recommend?

7 A. Due to so much uncertainty, because the
8 Companies could not provide the specific
9 programs to be considered, and based on the
10 potential programs being addressed in this
11 proceeding, we cannot recommend the creation of
12 this new gas safety incentive at this time.

13

14 First Responder Communication and Training

15 Q. What do KEDNY and KEDLI propose for enhanced
16 First Responder Communication and Training?

17 A. The Companies have requested increased funding
18 to support a new safety e-learning program.
19 This program contains a comprehensive series of
20 educational modules on gas safety issues,
21 incident management, the properties and
22 characteristics of natural gas, carbon monoxide
23 poisoning, and response tactics for incidents
24 involving liquefied natural gas.

- 1 Q. How often do KEDNY and KEDLI perform emergency
2 response drills?
- 3 A. According to DPS-375, Exhibit__(GSP-1), KEDNY
4 will perform a tabletop exercise and will
5 implement separate field-based drills with the
6 Fire Department of New York to enhance
7 communication and coordination in the event of
8 gas emergencies. Pending the outcome of this
9 exercise, KEDLI intends to perform a similar
10 interactive drill the following year, 2017, with
11 volunteer fire departments on Long Island.
- 12 Q. Does the Panel have any recommendations with
13 regards to training fire department first
14 responders?
- 15 A. Yes. 16 NYCRR Part §255.615(c) "Emergency
16 Plans" requires that natural gas utilities offer
17 training annually to volunteer fire departments.
18 We would like the Companies to improve their
19 current training of fire department first
20 responders in both service territories by
21 conducting more drills, hands-on activities, and
22 workshops with a review of the processes and
23 procedures that would be used during an
24 incident.

1 Q. What would be the benefits of having the
2 Companies improve their training with first
3 responders?

4 A. Both local fire departments and KEDNY and KEDLI
5 responders play a critical role in responding to
6 natural gas odors, leaks, and incidents. Most
7 often, customers report natural gas odors
8 directly to KEDNY and KEDLI. Companies will
9 then dispatch their first responders to
10 investigate and will notify the fire department
11 of the report as needed for assistance.

12 Q. What triggers a need for additional assistance?

13 A. There are multiple triggers for additional
14 assistance, such as multiple reports of gas odor
15 on the same block, high natural gas readings in
16 subsurface structures, suspected interaction of
17 gas and electric facilities, or any other
18 situation the Companies believe it needs
19 assistance. Assistance requests initiate a
20 heightened response in which the Companies,
21 besides calling the fire departments, will also
22 dispatch additional Company first responders and
23 supervisors. In situations such as these,
24 interaction between the fire departments and the

1 Companies is crucial to ensuring public safety.
2 Then, the fire departments and Companies
3 coordinate efforts to check for natural gas
4 inside residences or subsurface structures, and
5 evacuate homes if necessary.

6 Q. In what other ways could the fire departments
7 become involved in natural gas emergency
8 response?

9 A. Residents can notify 911 of a natural gas odor
10 instead of the utility. KEDNY and KEDLI's own
11 public awareness information advises customers
12 to call either 911 or the utility number in case
13 of a natural gas emergency. When someone calls
14 911, the fire department responders are often
15 the first ones on the scene and will initiate
16 actions to make the situation safe. This action
17 generally includes checking for the presence of
18 natural gas inside homes, and evacuating
19 residences. Also, the fire department notifies
20 KEDNY and KEDLI when it receives a report of a
21 natural gas odor. If the utility responder
22 arrives after the fire department, both KEDNY
23 and KEDLI need to be able to communicate and
24 coordinate with the fire department to assess

1 the situation and make the area safe. For all
2 instances where both fire department and the
3 Companies' personnel are on the scene, the fire
4 department and Companies need to be able to
5 effectively interact and communicate. Since
6 fire departments play such an important role in
7 natural gas emergency response, KEDNY and KEDLI
8 should provide more training to local fire
9 departments. This training should cover
10 realistic scenarios where both the Companies and
11 the fire departments jointly interact.

12 Q. How do KEDNY and KEDLI first responders
13 communicate with fire department first
14 responders?

15 A. According to DPS-375, Exhibit__(GSP-1) during
16 gas emergency situations the primary
17 communication between the local fire departments
18 and the Companies is through a land line or
19 cellular telephones. The Companies also
20 indicated that they have an exclusive utility
21 frequency that is not shared with other
22 agencies, such as fire departments.

23 Q. What does the Panel recommend?

24 A. In addition to the training enhancements

1 mentioned above, the radios used by KEDNY and
2 KEDLI and by fire departments should be
3 compatible or have a similar radio frequency
4 system to allow for communication with one
5 another in an emergency situation. A program
6 should be developed and implemented to ensure
7 that this communication is maintained.

8

9 Residential Methane Detection

10 Q. What has KEDNY proposed for its Residential
11 Methane Detection program?

12 A. KEDNY proposed to deploy 10,000 detectors in
13 apartments that currently have inside meter sets
14 by 2019. KEDNY has requested \$150,000 per year
15 to fund this program and seeks a positive
16 revenue adjustment should it be able to install
17 2,500 detectors by the end of the 2017 calendar
18 year, an additional 3,500 detectors in 2018, and
19 an additional 4,000 detectors in 2019. KEDNY
20 proposes incentives of one pre-tax basis point,
21 one pre-tax basis point, and 1.5 pre-tax basis
22 points, for each year, respectively.

23 Q. Where will the KEDNY detectors be located?

24 A. According to DPS-372, Exhibit__(GSP-1), KEDNY

1 intends to focus its installation efforts on
2 individual apartments within larger buildings
3 that have meters in the apartment, commonly
4 referred to by KEDNY as "room sets." These
5 "room sets" can present accessibility issues.
6 Having a methane detector in place would aid in
7 alerting nearby persons of a potential emergency
8 situation.

9 Q. Do the pipeline safety regulations allow for
10 meters to be inaccessible?

11 A. No. The wording of the requirement is very
12 clear. Per 16 NYCRR Part 255.353(a), "[e]ach
13 meter and service regulator must be installed in
14 a readily accessible location and be protected
15 from corrosion and other damage, including any
16 vehicular damage that may be anticipated."

17 Q. What does the Panel recommend regarding KEDNY?

18 A. We are supportive of KEDNY's Residential Methane
19 Detection program. However, during the
20 installation process should KEDNY encounter a
21 situation where a meter is inaccessible, it
22 should be required to take immediate action in
23 the relocation of said equipment to an
24 accessible location. According to the

1 Commission's regulations, each meter shall be
2 "readily accessible" and "protected".

3

4 Compliance Related Positions

5 Q. How many additional compliance analyst, quality
6 assurance analyst, and damage prevention advisor
7 positions are the Companies requesting?

8 A. The Companies are requesting a total of seven
9 full-time compliance analysts, two full-time
10 quality assurance analysts, and 12 full-time
11 damage prevention advisors.

12 Q. Please describe the responsibilities and general
13 duties of compliance analysts.

14 A. Compliance analysts' role is to promote the safe
15 and reliable operation of the Companies gas
16 system by performing regular audits of operation
17 activities. These audits focus on identifying
18 instances of non-compliance with the
19 Commission's pipeline safety regulations,
20 internal procedures, and documentation
21 deficiencies.

22 Q. Please describe the responsibilities and general
23 duties of quality assurance analysts.

24 A. Quality assurance analysts conduct field

1 inspections and assessments of the work
2 performed by both in-house and contractor crews.
3 These analysts also conduct the Companies' "re-
4 dig" program whereby newly constructed
5 underground facilities are exposed and inspected
6 to evaluate workmanship and compliance with the
7 pipeline safety regulations.

8 Q. Please describe the responsibilities and general
9 duties of damage prevention advisors.

10 A. Damage prevention advisors monitor the ticket
11 management system for active location requests,
12 provide education on applicable regulations, and
13 proactively work with excavators to reduce
14 damages.

15 Q. What does the Panel recommend?

16 A. We are supportive of the additional quality
17 assurance analyst, and damage prevention advisor
18 positions. However, we are not supportive of
19 rate recovery for the additional compliance
20 analyst positions.

21 Q. What is the revenue requirement impact of these
22 reductions in FTEs?

23 A. The Staff Accounting Panel provided the
24 following information about the impact of these

1 labor adjustments on the Companies' revenue
2 requirement. The removal of the compliance
3 analyst positions results in a downward
4 adjustment to other initiative expense of
5 \$360,882 for KEDNY, which includes \$233,423 in
6 labor and \$127,459 in adders; and \$384,501 for
7 KEDLI, which includes \$233,423 in labor and
8 \$151,077 in adders.

9 Q. Why is this recommendation reasonable?

10 A. Both the quality assurance analyst, and damage
11 prevention advisor positions provide a routine
12 service to verify compliance with the pipeline
13 safety regulations and overall workmanship. The
14 Companies have justified the need for these
15 additional positions, and we support these
16 additional positions. However, the compliance
17 analyst positions serve as a secondary, and in
18 some cases a tertiary, review of completed
19 documentation. While this review is beneficial
20 to the Company, the associated costs should not
21 be the responsibility of rate payers.
22 Ratepayers have already paid for a thorough
23 review of this documentation and should not be
24 responsible for these additional costs.

1 Independent Compliance Assessment

2 Q. What are the Companies' independent compliance
3 assessment proposals?

4 A. Both KEDNY and KEDLI propose to engage a third-
5 party consultant to perform an annual assessment
6 of compliance with federal, state, and local
7 pipeline safety requirements, as well as
8 procedures and work practices. The consultant
9 will review and assess the adequacy of Company
10 programs including training, operator
11 qualification, emergency response, and public
12 awareness. The consultant will review prior
13 internal, external, and regulatory audits, and
14 will identify re-occurring issues of non-
15 compliance. The costs associated with this
16 compliance assessment were forecasted to be
17 \$525,000 for KEDNY, and \$243,000 for KEDLI in
18 2017. Additional costs for each subsequent year
19 include \$160,000 for KEDNY, and \$130,000 for
20 KEDLI.

21 Q. Why is this assessment reasonable?

22 A. Regardless of the internal reviews conducted by
23 the Companies and Staff audits, these efforts
24 are generally specific in nature and do not

1 account for all of the procedures and work
2 practices. By hiring an independent, qualified
3 consultant to conduct a thorough and complete
4 review of all procedures and work practices, the
5 Companies would be assured of compliance with
6 the applicable requirements.

7 Q. What does the Panel recommend?

8 A. We are supportive of the Companies conducting an
9 independent compliance assessment of applicable
10 procedures and work practices. However, we
11 recommend that this assessment be conducted
12 once, not on an annual basis as originally
13 requested. By conducting a thorough and
14 complete review in the rate year, especially
15 given the addition of, quality assurance
16 analyst, and damage prevention advisor positions
17 discussed earlier, the Companies would not have
18 a need a third-party to re-assess these
19 procedures and work practices annually
20 thereafter. Therefore, we recommend that the
21 costs associated with this program are for the
22 baseline assessment only. Any future costs
23 associated with additional future reviews of
24 procedures and work practices would be subject

1 to justification and approval in a future
2 proceeding.

3

4 Service Line Proceeding and Replacements

5 Q. What is the service line proceeding?

6 A. In 2015, the Commission instituted Case 14-G-
7 0357, In the Matter of Revising 16 NYCRR Gas
8 Safety Regulations for Consistent Application of
9 More Stringent Federal Gas Safety Standards in
10 49 CFR, in which it adopted a new definition for
11 natural gas service lines for 16 NYCRRR Part
12 255.3(29). Under this new definition, service
13 lines would be extended to the outlet of the
14 customers' meter or at the connection to a
15 customer's piping, whichever is further
16 downstream. This includes when a meter is
17 located inside a building, or, as we discussed
18 earlier, inside each apartment within a larger
19 apartment building.

20 Q. What are the impacts of this definition change?

21 A. Impacts of this change include the inspection of
22 piping inside a building up to the gas meter,
23 and additional training, qualification, and
24 testing requirements for individuals who make

1 repairs on inside gas piping, upstream of the
2 meter.

3 Q. Did the Companies address the service line
4 proceeding in their filing?

5 A. Yes. Both KEDNY and KEDLI acknowledge this
6 service line proceeding and its impacts. Due to
7 the fact that this separate proceeding has not
8 yet concluded, the Companies have deferred
9 incorporating any associated costs on this
10 topic. Cost recovery is assumed to be handled
11 through this separate proceeding. Otherwise,
12 the Companies will petition the Commission to
13 recover these costs.

14 Q. What did KEDNY propose for its service line
15 replacement program?

16 A. KEDNY has proposed the replacement of an
17 additional 250 inside, high pressure,
18 unprotected steel services, annually, which are
19 not included in their leak prone pipe
20 replacement program. Both, an engineering
21 assessment of its gas services, and its
22 Distribution Integrity Management Program
23 identified these services as high risk due to
24 the vulnerability of the "wall piece" where the

1 piping penetrates the foundation. These
2 sections of piping are exposed to a higher level
3 of shear stress and corrosion.

4 Q. How many inside, high pressure, unprotected
5 steel services does KEDNY have?

6 A. According to DPS-373, Exhibit__(GSP-1), KEDNY
7 has approximately 8,100 inside, high pressure,
8 unprotected steel services within its service
9 territory.

10 Q. What does the Panel recommend?

11 A. We recommend the annual replacement of 250
12 inside, high pressure, unprotected steel
13 services within the KEDNY service territory. As
14 previously mentioned when we were discussing
15 residential methane detectors, we also recommend
16 that KEDNY use this opportunity to relocate
17 meters and service regulators to a readily
18 accessible location, ideally outside if
19 feasible. Due to the inherent safety risks when
20 compared to outside sets, it is a best practice
21 to have these facilities installed outside of
22 the building. For any instances where this
23 relocation cannot be completed, KEDNY should be
24 required to document and maintain the

1 justification for each occurrence. KEDNY should
2 be required to file a quarterly report with the
3 Secretary which details the services replaced,
4 dates of replacement, associated costs, and
5 justifications for leaving any of these
6 facilities within a building.

7

8 Integrity and Reliability Programs

9 Q. What is an Integrity Management Program?

10 A. An Integrity Management Program, or IM, provides
11 the process and means to improve the safety and
12 reliability of the natural gas system by
13 reducing both the likelihood and consequences of
14 incidents. These programs identify specific
15 threats to the system. Once identified, the
16 next step in the IM program is to assess how
17 these threats relate to high consequence areas.
18 The last step in the IM program is for the
19 operator to take action to address these
20 threats. The resultant prevention and
21 mitigation measures taken by the operator ensure
22 the system's integrity.

23 Q. How are high consequence areas, HCAs,
24 determined?

1 A. HCAs are determined by identifying the total
2 number of buildings intended for human occupancy
3 and identified sites (buildings that are hard to
4 evacuate such as hospitals, nursing homes, day
5 care centers, etcetera) within a specified
6 Potential Impact Radius, or PIR.

7 Q. What is the definition of a PIR?

8 A. PIR is defined as the radius of a circle within
9 which the potential failure of a pipeline could
10 have significant impact on life or property.

11 Q. How is the PIR determined?

12 A. The PIR is determined by calculating the
13 potential failure radius associated with an
14 identified threat. The radius takes into
15 account the maximum operating pressure of the
16 pipeline and its diameter.

17 Q. How long have operators been required to have an
18 Integrity Management Program?

19 A. For transmission pipelines, operators have been
20 required to have an IM program in effect since
21 December 17, 2004. For distribution pipelines,
22 operators have been required to have an IM
23 program in effect since August 2, 2011.

24 Q. Have there been any changes to the transmission

1 and distribution IM regulations since their
2 respective effective dates?

3 A. No. However, in 2013 and 2016, PHMSA released
4 proposed additions to IM regulations that, if
5 approved, will require operators to apply
6 additional assessment criteria, including
7 integrity verification, to their programs.

8 Q. What does integrity verification consist of?

9 A. Integrity verification consists of four basic
10 principles: identifying higher risk locations,
11 screening segments of pipelines for categories
12 of concern, assuring adequate material and
13 documentation, and performing assessments to
14 establish a maximum allowable operating
15 pressure.

16 Q. What is the preferred method of integrity
17 assessment?

18 A. The preferred methods of integrity assessment
19 are In-Line Inspections, or ILI, and hydrostatic
20 pressure testing. However, the hydrostatic
21 pressure test requires that the pipeline be
22 taken out of service and purged of its contents.

23 Q. What are the advantages of performing an ILI?

24 A. The advantages of performing an ILI include the

1 identification of pipeline geometry deformations
2 such as dents, identification of material or
3 construction defects, and the ability to measure
4 the extent of any wall thickness loss.

5 Q. Please explain what is meant by wall thickness
6 loss.

7 A. Wall thickness loss occurs when a pipeline
8 experiences either a mechanical damage or some
9 sort of corrosion. Mechanical damage typically
10 leaves a gouge or dent in the pipe that can be
11 identified by ILI. Metal loss in the wall due
12 to corrosion, either internal, external, or
13 atmospheric, can also be identified using ILI.

14 Q. What have KEDNY and KEDLI proposed with regard
15 to their IM programs?

16 A. KEDNY and KEDLI proposed increases to their IM
17 and Integrity Verification programs.

18 Justifications for these increases include
19 additional assessments on their transmission
20 mains, conducting a thorough review of records,
21 pressure testing, and engineering analyses.

22 Q. What does the Panel recommend?

23 A. We are supportive of KEDNY and KEDLI's Integrity
24 Management and Verification Programs. We also

1 encourage the use of ILI.

2 Q. How does this benefit the Companies' customers?

3 A. The completed assessments of the Companies'
4 systems have identified several threats which,
5 if left unrepaired, could directly impact public
6 safety. The rehabilitation projects to mitigate
7 these threats prolong the asset life with lower
8 remediation costs in the future, and avoid the
9 need for costly full pipe replacement. In
10 addition, integrity verification provides for
11 thorough review of a pipeline's safe operating
12 pressure so that maximum allowable operating
13 pressures can be justified or reset.

14 Q. Have either KEDNY or KEDLI proposed any
15 additional rehabilitation projects?

16 A. Yes. KEDNY proposed the deployment of a Cast
17 Iron Joint Sealing Robot, or CISBOT. Both KEDNY
18 and KEDLI proposed the utilization of Cured-In-
19 Place, CIP, pipe lining to recondition 16-inch
20 and larger diameter cast iron and steel mains.

21 Q. Please describe the CISBOT program.

22 A. Unlike traditional repair methods which would
23 require excavation for every leak location and
24 possibly the discontinuance of service, CISBOT

1 utilizes a single excavation without disrupting
2 customers. This robot traverses through the
3 pipe and seals cast iron joints. This process
4 remedies existing leaks, prevents future leaks,
5 and reduces emissions. A single excavation
6 allows CISBOT to reach and seal upwards of 80
7 cast iron joints, which makes the CISBOT
8 operation more cost effective per joint when
9 compared to the costs associated with normal
10 construction and repair methods. CISBOT does
11 not make repairs to any leaks that are not
12 located at the joints themselves.

13 Q. Please describe the CIP program.

14 A. A treated fabric liner and an adhesive resin are
15 installed inside cast iron and steel mains.
16 This new layer is impervious to gas and utilizes
17 the existing structure for strength because it
18 is not a pressure carrying vessel on its own.
19 Typically, mains containing CIP liners have been
20 termed reconditioned, and their useful life is
21 extended, which allows the Companies to focus
22 their attention on higher risked replacements.
23 Since CIP liners are not considered pressure
24 carrying vessels, use of CIP liners are

1 dependent upon the integrity and continued
2 maintenance of the host pipe.

3 Q. What are the specifics of the CISBOT and CIP
4 programs?

5 A. KEDNY proposed utilizing CISBOT to recondition
6 two miles annually, and CIP lining to
7 recondition 2.5 miles in 2017, four miles in
8 2018, and four miles in 2019. KEDLI proposed
9 utilizing CIP lining to recondition one mile
10 annually. Any program underruns would be shared
11 with 80% being owed to customers and 20% to
12 shareholders.

13 Q. Are reconditioned pipelines still considered
14 leak prone pipe?

15 A. Yes. Reconditioned pipelines are essentially
16 leak repairs made on existing cast iron and
17 steel mains. Facilities which have been
18 reconditioned should be re-prioritized within
19 the Companies' respective replacement programs,
20 but should remain in the program.

21 Q. What does the Panel recommend?

22 A. We support the utilization of CISBOT and CIP
23 lining programs. These innovative programs not
24 only reduce the average repair costs, but

1 prolong the useful life of a pipeline facility.
2 The Companies should be required to maintain all
3 reconditioned pipe on their respective leak
4 prone pipe prioritization list for future
5 removal. In addition, the Companies should only
6 be allowed to use CIP lining on cast iron pipe
7 that is greater than 12-inches in diameter, only
8 after the pipe to be lined has been examined for
9 the presence of graphitization and has had its
10 integrity verified. The Companies should also
11 be required to develop a program, with Staff,
12 that will inspect lined pipe on a regular basis,
13 including but not limited to, leakage surveys,
14 checks for graphitization, and integrity
15 verification. The Companies should be required
16 to report the inspection results to the
17 Secretary to the Commission on an annual basis.
18 The extra protocols for CIP liners are needed as
19 the CIP liners are not pressure carrying
20 vessels.

21

22 Inactive Accounts

23 Q. What enhancements are being made to the
24 Companies' Inactive Accounts program?

1 A. KEDNY and KEDLI have employed a more structured
2 process to access and lock their inactive
3 accounts, proposed a "Leave on for the Landlord"
4 program that provides an option for the landlord
5 to transfer accounts into its name and requires
6 notifications to the landlord of any such
7 changes, are supportive of potential legislation
8 to assist utilities in gaining access to
9 buildings, are working with other utilities to
10 develop protocols for gaining access to
11 buildings, and have incorporated the importance
12 of gaining access into their public awareness
13 programs.

14 Q. How many inactive accounts do KEDNY and KEDLI
15 have?

16 A. According to DPS-380, Exhibit__(GSP-1), and as
17 of March 25, 2016, KEDNY has 7,898, and KEDLI
18 1,130 inactive accounts on record. The length
19 of time these accounts have been left inactive
20 for ranges up to above one year with 655
21 accounts, cumulatively for both Companies,
22 inactive for greater than one year.

23 Q. Why are accounts remaining inactive for such
24 long periods of time?

1 A. Reasons for accounts remaining inactive for such
2 long periods of time include the Companies'
3 inability to gain access, the accounts being
4 referred to field operations for physical
5 disconnection, and the legal replevin process
6 utilized to secure access.

7 Q. Should all meters and service regulators be
8 installed in a readily accessible location?

9 A. Yes. As previously mentioned when we discussed
10 residential methane detectors and the service
11 line definition, all meters and services are
12 required to be installed in a readily accessible
13 location and be protected from corrosion and
14 other damage, including any vehicular damage
15 that may be anticipated.

16 Q. What are KEDNY and KEDLI's procedures for
17 initiating their respective disconnection
18 processes?

19 A. According to DPS-380, Exhibit__(GSP-1), two
20 attempts are made to access the meter within the
21 first 60 days. If both attempts are
22 unsuccessful, an order is created to either
23 disconnect the service or to commence the legal
24 replevin process.

1 Q. Is there any usage associated with inactive
2 accounts?

3 A. According to the Companies' responses to DPS-
4 380, Exhibit__(GSP-1), 2,245 of the 9,028,
5 nearly 25%, recorded some amount of gas usage
6 while being in an inactive status. Based on
7 March of 2016 pricing, approximately \$417,576 of
8 usage was recorded as lost and unaccounted for
9 gas, or LAUF. The Staff Gas Rates Panel
10 addresses the treatment of LAUF.

11 Q. Does this lost and unaccounted for gas present a
12 safety risk to the general public.

13 A. It could. While in some cases this gas usage
14 may be accounted for by actual use by an
15 unidentified party, the possibility exists that
16 there may be leakage on the piping associated
17 with these accounts. Any leakage into a
18 building presents an immediate danger to life,
19 property, and the environment. In the past two
20 years, Niagara Mohawk Power Corporation d/b/a
21 National Grid, the sister company of KEDNY and
22 KEDLI, experienced an explosion in Schenectady,
23 New York, and KEDLI experienced an explosion in
24 Watermill, New York, where two people were

- 1 injured. Both of these involved inactive
2 accounts where the meters were not shut off.
- 3 Q. What do the pipeline safety regulations say with
4 regard to the abandonment or inactivation of
5 facilities?
- 6 A. The Commission's regulations, at 16 NYCRR
7 255.727(d), state that "[w]hen service to a
8 customer is discontinued, one of the following
9 apply. (1) The valve that is closed to prevent
10 the flow of gas to the customer must be provided
11 with a locking device or other means designed to
12 prevent the opening of the valve by persons
13 other than those authorized by the operator.
14 (2) A mechanical device or fitting that will
15 prevent the flow of gas must be installed in the
16 service line or in the meter assembly. (3) The
17 customer's piping must be physically
18 disconnected from the gas supply and the open
19 pipe ends sealed."
- 20 Q. Is there a timing requirement to commence the
21 abandonment or deactivation of a facility?
- 22 A. While not explicitly defined within the pipeline
23 safety regulations, it is important to note that
24 the pipeline safety regulations do not recognize

1 an active service without a customer, and it is
2 a requirement to commence this process as soon
3 as practicable. The regulations do require that
4 each segment of pipeline that becomes unsafe
5 must be replaced, repaired, or removed from
6 service and specifically require action to take
7 place when service to a customer is
8 discontinued.

9 Q. Is the 60 day requirement provided within the
10 KEDNY and KEDLI procedures reasonable?

11 A. No. There are safety risks associated with this
12 interval, and the possibility exists that the
13 lost and unaccounted for gas related to inactive
14 accounts is due to leakage on the associated
15 piping.

16 Q. What does the Panel recommend?

17 A. While we are supportive of the efforts both
18 KEDNY and KEDLI have put forth thus far on
19 addressing inactive accounts, due to the
20 inherent safety risks, we recommend that both
21 Companies revise their procedures to provide for
22 a more stringent time requirement. These
23 revisions should be filed within 30 days of the
24 issuance of a rate order in this proceeding. If

1 the Companies do not believe that a more
2 stringent time frame be required, we recommend
3 that the Companies seek a formal interpretation
4 from PHMSA as to the reasonableness associated
5 with the commencement of this inactive account
6 process.

7

8 Roadway Depressions

9 Q. Why are road depressions and cave-ins a threat
10 to the natural gas system?

11 A. Roadway depressions and cave-ins can be
12 indicative of underground soil erosion, which
13 can be caused by events such as water main leaks
14 or sewer breaks. This can result in a loss of
15 supporting soil around natural gas mains or
16 services, which could cause the facilities to
17 leak or fail. The NTSB's and Staff's
18 investigation into the explosion in East Harlem
19 in March 2014 found loss of ground support for
20 the gas main due to a sewer main break to be a
21 contributing factor to the incident. The NTSB
22 East Harlem report is publicly available on the
23 NTSB's website at <http://www.nts.gov/investigations/AccidentReports/Pages/PAR1501.aspx>.

1 Staff's report is publicly available on the
2 Commission's website under Case 14-G-0201.

3 Q. Has KEDNY proposed any programs to address
4 roadway depressions?

5 A. Yes. KEDNY will coordinate with reports from
6 New York City's Department of Transportation to
7 inspect roadway depressions for potential damage
8 to underground facilities. KEDNY anticipates
9 using existing personnel and internal systems to
10 perform these inspections and forecasts startup
11 costs to be \$1.12 million in 2017. This money
12 will be used for the development and
13 implementation of the program and associated
14 labor costs to conduct the inspections.

15 Q. What inspections are currently done by KEDNY
16 that may identify roadway depressions?

17 A. For KEDNY's transmission pipelines, leakage
18 surveys are conducted on an annual basis as well
19 as patrols which are completed more frequently.
20 For KEDNY's distribution pipelines, leakage
21 surveys are conducted either annually, once
22 every three years, or once every five years,
23 depending on the facilities material type and
24 location. Opportunities do exist during these

1 surveys and patrols for KEDNY to identify any
2 roadway depressions.

3 Q. What does this Panel recommend with regards to
4 KEDNY's roadway depression program?

5 A. We are supportive of the implementation of
6 KEDNY's roadway depression program and that it
7 continue to monitor street conditions to
8 determine if there is a potential threat to its
9 natural gas facilities. Any associated
10 findings, or threats, should be coordinated with
11 all other affected facility operators, and the
12 Companies respective integrity management
13 program.

14

15 Annual Reporting Requirements

16 Q. Are there any other conditions that KEDLI and
17 KEDNY should be required to meet pertaining to
18 your safety related performance measure
19 recommendations?

20 A. Yes. We recommend the Commission direct KEDLI
21 and KEDNY to submit a report, within sixty days
22 following the end of each calendar year, on its
23 performance as they relate to these measures.
24 Any modifications made to the submitted data as

1 identified in Case 13-M-0314 should also be
2 required to be incorporated into these measures.

3 Q. What is Case 13-M-0314?

4 A. Case 13-M-0314 is a focused operations audit of
5 nine LDCs by an independent consultant. The
6 objectives of this audit were to assess the
7 completeness and accuracy of the performance
8 measure data for Emergency Response Times, Leak
9 Management, and Damage Prevention as submitted,
10 to assess the comparability amongst utilities,
11 and to determine the suitability of the
12 measures. Both KEDLI and KEDNY participated in
13 this audit and its recommendations were made
14 public at the April 20, 2016 Commission Session.

15 Q. Does this complete the Panels' testimony?

16 A. Yes, at this time.

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