

STATE OF NEW YORK

PUBLIC SERVICE COMMISSION

**CASE 16-G-0058 - Proceeding on Motion of the Commission as to the Rates, Charges,
Rules and Regulations of KeySpan Gas East Corp. dba Brooklyn
Union of L.I. for Gas Service.**

Rebuttal Testimony of Richard L. Levitan and Alexander J. Mattfolk

On behalf of the Long Island Power Authority

June 10, 2016

1 **I. Introduction & Summary**

2 **Q Panel, please state your names, position, and business address.**

3 A I am Richard L. Levitan, President of Levitan & Associates, Inc. (LAI). I am
4 Alexander J. Mattfolk, an Executive Consultant at LAI. Our business
5 address is 100 Summer Street, Suite 3200, Boston, MA 02110.

6 **Q Did you previously provide testimony in this case?**

7 A Yes, we filed direct testimony on behalf of the Long Island Power Authority
8 (LIPA) on May 20, 2016.

9 **Q What is the purpose of your rebuttal testimony?**

10 A The primary purpose of our testimony is to address certain recommendations
11 of the New York Department of Public Service’s Gas Policy and Supply
12 Panel (hereafter “Staff”). As an initial matter, Staff’s recommendations
13 address many of our concerns and represent a significant step forward. We
14 support Staff’s recommendation to reduce the KEDLI daily balancing
15 requirement to the 2% level, not zero, and Staff’s recommendation to apply
16 the remaining imbalance to a monthly account that can be netted or traded
17 among “similarly situated customers” (p. 58, L24 – p. 59, L3). We also
18 support Staff’s practical consideration oriented around gas system integrity
19 on Long Island, for what Staff called a “no harm, no foul” approach to
20 imbalances for firm and interruptible customers alike (p. 58, L6-7). Lastly,

1 we support Staff’s recommendation for KEDLI to perform a detailed
2 analysis of the cost incurred to serve electric generators as well as
3 contributions received from generators. However, we disagree with Staff’s
4 proposal to reclassify cashout premiums, discounts, and the \$10 per Dth
5 adder (which we will refer to collectively as “Cashout Charges”) as charges
6 for unauthorized use or “penalties” (Staff, p. 60). Such a step is likely to
7 have unintended negative consequences for the efficient operation of the
8 electric system, electric and gas prices, and the environment. These
9 unintended consequences are addressed below. Finally, we present general
10 economic rules or considerations that may guide the detailed cost analysis
11 Staff has proposed.

12 **II. Staff’s Cashout Charge Recommendation**

13 **Q What is Staff’s recommendation to reclassify Cashout Charges?**

14 A Staff has proposed explicit language to reclassify Cashout Charges as
15 “penalties”, thereby excluding all such costs in any bid submitted to NYISO
16 for economic dispatch purposes.

17 **Q Why does Staff seek to exclude these costs from electricity prices?**

18 A Staff has set forth a multi-pronged explanation. First, Staff points out that
19 adding these charges to bids could raise electricity prices (Staff, p. 60).
20 Second, Staff notes that any imbalance beyond the 2% tolerance band has

1 “the potential to cause cost and reliability issues for the firm gas ratepayers”
2 (Staff, p. 52). Later, Staff states that imbalances represent “significant risks
3 to the natural gas system” (Staff, p. 54). Finally, in response to Exhibit No.
4 __ (RLL/AJM-13) regarding the Cashout Charges, Staff states that “[t]hese
5 costs are established as a deterrent and should be avoided.”

6 **Q Do you agree with Staff’s rationale for reclassifying Cashout Charges as**
7 **penalties?**

8 A No. While we agree that reliability is of paramount concern for both the gas
9 and electric systems, we believe that this structural change to the SC-14
10 tariff will remove generators’ ability to rely on the gas system when local
11 gas system reliability should not be an issue, while moving further away
12 from traditional electric *and gas* price efficiency objectives. The structural
13 change to the SC-14 tariff may leave “money on the table” in regard to
14 credits to KEDLI’s gas customers. Furthermore, treating costs associated
15 with imbalance resolution as penalties will likely increase electricity prices –
16 the result Staff sought to avoid in the first place. Moreover, from an
17 operational perspective, there should not be a “one-size fits all” approach
18 which treats all imbalances beyond the 2% tolerance band as having the
19 same significance regardless of conditions on the local distribution system.
20 We will return to this point later in our testimony.

1 **Q When would it be appropriate to treat an imbalance as unauthorized**
2 **use?**

3 A During an OFO event or a curtailment event, as defined by the current
4 KEDLI tariff.

5 **Q Should KEDLI's SC-14 tariff distinguish between OFO and non-OFO**
6 **days?**

7 A Yes. There is an important operational distinction between OFO and non-
8 OFO days that warrants modifications to KEDLI's cashout provisions.
9 Unauthorized gas use on OFO days may compromise the reliable operation
10 of the local distribution system. We therefore have not challenged the OFO
11 related penalties KEDLI has in place to ensure system integrity. But gas use
12 under the imbalance mechanism on non-OFO days should not be categorized
13 as "unauthorized" if there is no imminent threat to local system integrity.
14 Levying penalties on non-OFO days when there is headroom on the local
15 distribution system to accommodate LIPA's requirements without
16 jeopardizing gas system integrity undercuts the no-harm, no-foul principle
17 Staff has lauded in its testimony, a principle, in our experience, that many
18 interstate pipelines and LDCs throughout the U.S. commonly employ in their
19 administration of imbalance resolution procedures. In updating the SC-14
20 tariff, in particular, KEDLI's imbalance resolution procedure, the

1 Commission must weigh an equitable balance between gas and electric
2 customers on Long Island.

3 **Q Do gas overpulls by electric generators compromise service to core**
4 **customers?**

5 A Staff's response to Question 30 of Request No. LIPA-6, attached as Exhibit
6 No.__(RLL/AJM-14), shows that Staff is not aware of any occurrence where
7 KEDLI's firm customers have ever been adversely affected by electric
8 generators' overpulls.

9 **Q In your opinion, are operating conditions on Long Island so different**
10 **than operating conditions elsewhere on the New York Facilities System,**
11 **or, for that matter, at other LDCs, that it would justify a more**
12 **restrictive imbalance resolution procedure during both OFO and non-**
13 **OFO days?**

14 A No. Like KEDNY, Con Edison and other LDCs doing business in the tri-
15 state area (New York, New Jersey and Connecticut), or, for that matter,
16 Arizona, KEDLI's local system delivery capability is designed to ensure
17 reliable operation under extreme temperature conditions. Gas system
18 operators manage their respective portfolio to ensure safe and secure system
19 operations under the design temperature criterion. On Long Island, KEDLI's
20 pipeline and conventional storage entitlements are supplemented with
21 satellite LNG storage capability at Holtsville to ensure reliable gas system

1 operations 365 days a year, including cold snaps. Previously working in
2 close coordination with many gas LDCs including KEDLI, KEDNY, and
3 Con Edison, we conducted a technical review of local distribution
4 infrastructure capability. We performed a confidential analysis for the
5 NYISO and the other Eastern Interconnection Planning Collaborative
6 participants. The analysis was performed on KEDLI, KEDNY and Con
7 Edison, Central Hudson Gas & Electric, and many other LDCs in PJM and
8 Ontario. While there are usually operating conditions and system design
9 criteria that differentiate one local distribution system from another,
10 technical review of KEDLI's distribution system capability to support gas-
11 fired generation has informed our perspective in the present context.

12 **Q What operational concerns specific to NYISO Zone K (Long Island) can**
13 **lead to real time deviations in gas-fired generation from dispatch**
14 **planned by NYISO day-ahead market?**

15 **A** LIPA relies on transmission imports from NYISO Zone I across two-345 kV
16 lines – Y49 (637 MW) and Y50 (653 MW) – as well as two HVDC lines
17 from PJM and ISO-NE. LIPA also has a 138 kV connection from Norwalk
18 Harbor, CT to Northport, Long Island and ties with Con Edison at Lake
19 Success and Jamaica. As an import-constrained zone, LIPA's generators are
20 called on to adjust up or down on-island generation to account for deviations
21 and outages in three Regional Transmission Organizations. There are

1 complex, interrelated market dynamics in the Lower Hudson Valley,
2 downstate New York, PJM and New England that invariably result in the
3 need for imbalance resolution under the KEDLI tariff. On non-OFO days,
4 applying the “spirit” of no-harm, no-foul, such resolution is entirely
5 consistent with the functionality of the SC-14 tariff, and should not be
6 changed to increase uneconomic costs on LIPA’s customers or
7 environmental harm.

8 **Q Do you believe there could be additional unintended consequences**
9 **ascribable to Staff’s recommendation of having all incremental gas use**
10 **beyond a 2% tolerance band be considered unauthorized?**

11 A Yes. Based upon the NYISO rules, a generator is not required to submit real
12 time bids when the acceptance of those bids would cause the unauthorized
13 use of natural gas. This would require LIPA to bid overnight real time
14 generating bids with oil, not natural gas. And, because the quick-start units
15 available in the real time market burn kerosene or distillate oil, the oil price
16 would reflect a premium grade oil rather than lower cost residual fuel oil.

17 **Q What would be the impact of this change?**

18 A There would be a significant adverse cost impact attributable to this change.
19 Instead of bidding \$45 per MWh (\$3.00 per Dth for natural gas x 15,000
20 Btu/kWh), LIPA would bid incremental generation on oil at \$180 per MWh
21 (\$12 per Dth equivalent distillate oil x 15,000), a four-fold increase. In

1 addition to this significant adverse cost impact, there could also be
2 significant adverse environmental effects attributable to high carbon content
3 and other primary emissions such as sulfur dioxide and nitrous oxides.

4 **Q Do you have economic concerns about Staff’s recommendation?**

5 A Yes. Staff acknowledged that power generation is subject to greater load
6 variations because of NYISO dispatch requirements (Staff, p. 49). However,
7 the current cashout provisions are merely focused on providing an
8 “incentive...to better manage imbalances” (Staff, p. 50) without offering any
9 tools for doing so. To the extent that the gas system can physically
10 accommodate generator imbalances, the issue should be how to price such a
11 service. In response to LIPA-5, Q. 27, Staff agrees that such a service could
12 be considered if the right assets exist to support it. We suggest that
13 exploring the feasibility of new services to manage imbalances be part of the
14 study that Staff has recommended. By setting a cost-based price for
15 balancing, one that is differentiated on OFO versus non-OFO days, gas
16 customer interests would be protected and the NYISO would be afforded
17 more options for serving electric load than merely switching to oil-fired
18 generation. We agree with Staff that “it is imperative to set these rates
19 appropriately.” (Staff, p. 51). Such considerations will become even more
20 acute in the future. As renewable energy penetration levels associated with
21 solar and wind increase over time, natural gas operations on Long Island and

1 across NYISO will become more complex in order to support the variability
2 on cloudy days or when the wind dies down. The gas tariff should help
3 provide the required thermal operational hedges on Long Island across
4 NYISO to support variable generation with load following capability. If gas-
5 fired generation is unable to respond to real-time deviations in renewable
6 energy because of an incentive to avoid Cashout Charges, the resultant
7 increased oil burn would negate the environmental benefits ascribable to
8 increased renewable energy penetration.

9 **Q Would allowing balancing cashout discounts and surcharges to continue**
10 **to be included in generator bids threaten gas system reliability?**

11 A No. Gas system integrity is protected through KEDLI's ability to issue an
12 OFO and to fully or partly interrupt customers as needed anytime throughout
13 the year. Day in, day out, LIPA must offer its generation resources into the
14 NYISO market, including during cold snaps when local deliverability
15 conditions are often bottlenecked. Regardless of the magnitude of the
16 discount or surcharge deemed "penalty" related, KEDLI's operators will
17 *always* take whatever action is warranted to ensure that the local distribution
18 system is running safe and secure for purposes of maintaining service to core
19 customers. Precluding the consideration of balancing cashout discounts and
20 surcharges in bid prices would impair allocative efficiency objectives—
21 *without moving the "needle" in regard to gas system integrity.*

1 **Q Are Cashout Charges addressed in the Con Edison gas rate proceeding**
2 **underway in Case 16-G-0061?**

3 A Con Edison proposes to change the cost of gas calculation associated with
4 cashouts so that it is based on the average of the daily high spot prices
5 published for a “Citygate Company Receipt Point” rather than based on a
6 single daily high spot price. This is because the relevant price indices in
7 New York City are Transco Zone 6-NY (TZ6-NY), Texas Eastern Zone M-3
8 (TETCOM3), and Iroquois Zone 2 (IGTSZ2). See Testimony of Ivan
9 Kimball, p. 54, L.12-16. In its testimony in the Con Edison case, Staff
10 agreed with an averaging approach, though it recommends using a daily
11 volume weighted index around mid-point prices. See Testimony of Staff Gas
12 Supply and Reliability Panel, p. 12, L.1-11. Staff’s testimony in this
13 proceeding did not address this issue. We recommend that the same
14 approach be applied here.

15 **III. Cost-of-Service Study Recommendations**

16 **Q Staff has recommended that KEDLI perform a detailed analysis, with**
17 **input from Staff, of the cost incurred to serve electric generators as well**
18 **as contributions received from generators. Can you comment on the**
19 **minimum components of the analysis set forth by Staff?**

1 A Yes. The first component is a comprehensive marginal cost study of serving
2 all of KEDLI's customers, both firm and interruptible. In our view, a
3 marginal cost study should reflect the discernible costs associated with
4 KEDLI's high-pressure backbone versus the distribution system. It should
5 also address time, that is, short run versus long run marginal costs. Under
6 the circumstances, it should address all of the components underlying the
7 delivered cost of gas to support gas-fired generation across the New York
8 Facilities System, the Lower Hudson Valley, Connecticut, and New Jersey.
9 Not normally part of a marginal cost study, operational constraints affecting
10 the designation of unauthorized gas use that compromises reliable operation
11 of the local distribution system should be addressed in order to confirm the
12 reasonableness of authorizing gas use under the tariff that does not
13 compromise reliability. Finally, the study should provide an analytical basis
14 for a tariff that harmonizes the gas, electric and environmental policies of the
15 State through its recognition that KEDLI does and should serve an important
16 *commercial* function without compromising the integrity of the gas system
17 by being the occasional supplier/buyer of last resort due to the inherent
18 variability and unpredictability of electric generator gas demand. Later in the
19 gas trading day, the decreasing liquidity in the intra-day gas market on
20 Iroquois, and, to a lesser extent, Transco, renders KEDLI a "source" or a

1 “sink” of last resort so long as there is sufficient operational headroom to
2 accommodate the variability in LIPA’s gas use.

3 **Q The second part of the detailed analysis recommended by Staff includes**
4 **a bypass analysis for each individual generator. How should this**
5 **analysis be performed?**

6 A Bypass analysis should allow for groups of generators that are similarly
7 situated, not individual units, thereby sensibly apportioning joint fixed costs
8 among benefited units. Northport is located next to the Iroquois mainline.
9 Barrett is located near the Transco mainline. Other generation plants under
10 contract with LIPA are located along the high pressure backbone or lower
11 pressure distribution system, where a direct pipeline interconnection may not
12 be feasible. The comparatively low cost of establishing a direct connection
13 for Northport and Barrett at or nearby interstate pipelines must be quantified
14 as well as the higher cost of establishing a direct connection for those inland
15 facilities located across the heart of KEDLI’s distribution system.

16 **Q The third part of the detailed analysis recommended by Staff references**
17 **alternate fuels and/or other factors that might make a subset of**
18 **interruptible customers more or less price elastic. Can you recommend**
19 **specific factors that should enter into the determination of LIPA’s price**
20 **elasticity affecting the demand for local transportation service on Long**
21 **Island?**

1 A Yes. There are three factors affecting LIPA's price elasticity of demand, as
2 follows (in no particular order): first, the physical infrastructure in place to
3 store different oil types for dual-fuel capable generation on Long Island,
4 including replenishment logistics via barge or truck associated with residual
5 fuel oil, kerosene, and ULSD; second, the cost competitiveness of oil versus
6 natural gas delivered to Long Island; and, third, applicable air permit
7 restrictions for the dual fuel generating plants that often restrict the amount
8 of oil use.

9 **Q Another component set forth by Staff pertains to the evaluation of**
10 **value-based and cost-based interruptible rate design. Do you agree that**
11 **recognition of value of service principles is an appropriate part of the**
12 **detailed cost study?**

13 A Yes. The appropriate starting point for the detailed analysis should be
14 traditional cost of service analysis. The results of such analysis should help
15 inform the Commission regarding the appropriate rates chargeable to
16 interruptible customers for the array of transportation and balancing services
17 levied under the SC-14 rate. Discriminatory deviations from cost of service
18 based rates may still be permissible based on value of service principles.
19 The Commission must safeguard against tariff reform that is unduly
20 discriminatory, however.

21 **Q Do you have anything else to add?**

1 A Yes. We recommend that the analysis also evaluate the provisions
2 underlying a new load following service for electric generators tailored for
3 scheduling flexibility on Long Island. LIPA looks forward to participating in
4 that process.

5 **Q Does this conclude your testimony?**

6 A Yes.