

November 13, 2020

To: Finance & Audit Committee
LIPA Board of Trustees

Re: Quarterly Report on Interest Rate Exchange Agreements
Quarter Ended September 30, 2020

Dear Finance & Audit Committee Members:

The Long Island Power Authority (“the Authority”, “LIPA”) is filing this report pursuant to reporting requirements outlined in the Comprehensive Guidelines for the Use of Interest Rate Exchange Agreements, as approved by the Board of Trustees on March 29, 2017.

Description of the Interest Rate Exchange Agreements

As of September 30, 2020, LIPA had the following interest rate swap agreements outstanding:

| Counterparty | Type of Swap | Notional Outstanding (\$000) | Effective Date | Maturity Date |
|--------------------------------------|-------------------|------------------------------|----------------|---------------|
| UBS AG | Floating-to-Fixed | \$587,225 | 6/1/2003 | 12/1/2029 |
| Citibank, N.A. | Floating-to-Fixed | \$251,510 | 9/1/2022 | 9/1/2042 |
| Wells Fargo Bank, N.A. | Floating-to-Fixed | \$164,860 | 9/1/2022 | 9/1/2029 |
| Merrill Lynch Capital Services, Inc. | Basis Swap | \$413,213 | 7/1/2004 | 8/15/2033 |
| Citibank, N.A. | Basis Swap | \$206,606 | 7/1/2004 | 8/15/2033 |
| JPMorgan Chase & Co. | Basis Swap | \$206,606 | 7/1/2004 | 8/15/2033 |
| Wells Fargo Bank, N.A. | Total Return | \$51,000 | 5/1/2020 | 6/29/2023 |
| Wells Fargo Bank, N.A. | Total Return | \$149,000 | 5/1/2020 | 6/29/2023 |
| Wells Fargo Bank, N.A. | Total Return | \$175,000 | 9/15/2016 | 9/1/2021 |

As of September 30, 2020, the estimated total mark-to-market value of the transactions was approximately negative \$257 million (please see Appendix A). The mark-to-market value excludes transaction costs and is calculated at prevailing mid-market rates. Therefore, it represents the hypothetical amount that LIPA would owe to the counterparties if the transactions were terminated on that date, absent transaction costs.

Counterparty Ratings

As of September 30, 2020, the Authority’s counterparties had the following ratings and outlooks:

| Counterparty | Moody's | | S&P | | Fitch | |
|----------------------------|---------|----------|--------|---------|--------|----------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| UBS | Aa3 | Stable | A+ | Stable | AA- | Negative |
| Merrill Lynch ¹ | A2 | Stable | A- | Stable | A+ | Stable |
| Citibank | Aa3 | Stable | A+ | Stable | A+ | Negative |
| JPMorgan ² | A2 | Stable | A- | Stable | AA- | Negative |
| Wells Fargo | Aa2 | Negative | A+ | Stable | AA- | Negative |

¹Guaranteed by Bank of America Corp.

²Original counterparty was Bear Stearns Capital Markets Inc.

Risks

The Authority is subject to certain risks under its interest rate swap transactions, including:

Counterparty Risk: the risk that a counterparty (or its guarantor) will fail to make a payment or default under the swap agreement and LIPA will lose the benefit of the hedge. If a counterparty were to default under its agreement when owing a termination payment to LIPA, LIPA may have to pay another entity to assume the position of the defaulting counterparty. The swap agreements contain various termination events and collateral posting provision to mitigate counterparty risk for lower-rated entities (see Appendix B).

Termination Risk: the risk that a counterparty will terminate a swap with LIPA owing a termination payment. Only LIPA is entitled to terminate these transactions from time-to-time for any reason; the counterparties may only terminate upon the occurrence of certain events such as payment defaults, other defaults which remain uncured for 30 days after notice, the bankruptcy or insolvency of LIPA (or similar events), certain downgrades of LIPA's and a swap insurer's (if any) credit rating, and events related to the underlying bonds. As of September 30, 2020, the credit ratings of LIPA and its swap insurer were as follows:

| Entity | Moody's | | S&P | | Fitch | |
|---|---------|---------|--------|---------|--------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| LIPA | A2 | Stable | A | Stable | A | Stable |
| Assured Guaranty Municipal Corp. ¹ | A2 | Stable | AA | Stable | - | - |

¹Insurer on swaps with UBS and Merrill Lynch.

Collateral Posting Risk: the risk that LIPA will be required to post collateral to its counterparties to secure a negative mark-to-market valuation. LIPA is only required to post collateral should its ratings fall to certain levels (see Appendix B). As of September 30, 2020, there was no collateral posted by either LIPA or its counterparties.

Basis Risk: the risk of a mismatch in the variable rates paid and received by LIPA.

Under the floating-to-fixed swap with UBS, LIPA is subject to the risk that the variable-rate received (69.47% 1M LIBOR) does not offset the payments on the underlying bonds. LIPA

has minimized this risk by issuing bonds based on the LIBOR index (including when accounting for the Total Return Swaps), thus closely matching the floating rates.

In December 2019, LIPA executed two forward-starting floating-to-fixed swaps with Citibank and Wells Fargo in anticipation of refunding certain bonds in 2022. The floating rate LIPA is set to receive on such swaps (70% 1M LIBOR, or any potential fallback upon the discontinuation of LIBOR), may be different than the rate payable on any variable-rate refunding bonds.

LIPA has three basis swap transactions whereby LIPA pays SIFMA and receives 70.5% of 1M LIBOR. On these swaps, LIPA is subject to the risk that SIFMA trades at a level higher than 70.5% 1M LIBOR, thus resulting in negative cash flows. The relationship between these two rates can be affected by multiple variables, including but not limited to absolute levels of interest rates, supply and demand considerations, and tax factors. The weekly SIFMA/1M LIBOR ratio has fluctuated over time, having averaged 72.1% since the inception of these swaps in 2004.

The Authority views basis risk as a limited form of variable-rate exposure, and therefore takes Basis Risk into account when analyzing outstanding interest rate exposure, as shown in Appendix C.

Risk of Potential Discontinuation of LIBOR: the United Kingdom's Financial Conduct Authority has announced that it will no longer require LIBOR panel banks to provide quotes to set the LIBOR benchmark as of the end of 2021. Certain of the Authority's swaps are scheduled to be in effect at such time. Following this date, it is unclear whether banks will continue to provide quotes voluntarily, or if LIBOR will continue to be deemed a viable index by market participants.

In the United States, the Alternative Reference Rates Committee (ARRC) has developed the Secured Overnight Financing Rate (SOFR) as an alternative risk-free rate, and subsequently identified SOFR as a possible replacement rate for LIBOR. SOFR is a broad measure of the cost of borrowing U.S. Treasury securities overnight. ARRC and market participants are currently in the process of identifying methodology for which LIBOR-based instruments may be transitioned into using SOFR, in the event LIBOR is no longer published or utilized. It is currently unclear what the impact, if any, of such a transition could be on the Authority and its swaps. The Authority is monitoring all developments related to the potential LIBOR discontinuation in order to understand how it may be affected going forward.

Interest Rate Exposure As of September 30, 2020, LIPA's net floating rate exposure is -6.32% as summarized in Appendix C.

/s/ Tamela Monroe
Tamela Monroe
Chief Financial Officer

Appendix B: Additional Termination Events/Collateral Posting Thresholds

| Terms Applicable to LIPA: A2 (Moody's), A (S&P), A (Fitch) | | | | | |
|--|--|------------------------------|---------------------------------------|---------------------------------------|---|
| Counterparty | Citibank | JPMorgan | Merrill Lynch (BofA Corp.) | UBS | Wells Fargo |
| Insurer | | | Assured Guaranty | Assured Guaranty | |
| Additional Termination Event (below) | Baa2 (Moody's) or BBB (S&P or Fitch) ¹ Baa3 (Moody's) or BBB- (S&P or Fitch) | Baa3 (Moody's) or BBB- (S&P) | Baa3 (Moody's) or BBB- (S&P) | See Note 3 | Baa3 (Moody's) or BBB- (S&P or Fitch) |
| Insurer Event (below) | | | A3 (Moody's) or A- (S&P) ² | A2 (Moody's) and A (S&P) ³ | |
| Collateral Thresholds (Lowest Rating) | | | | | |
| | <i>N/A - No CSA</i> | <i>Moody's / S&P:</i> | <i>Moody's / S&P / Fitch:</i> | <i>N/A - No CSA</i> | <i>Moody's / S&P / Fitch:⁴</i> |
| Aa3 or AA- and above | | Infinite | Infinite | | Infinite |
| A1 or A+ | | Infinite | Infinite | | Infinite |
| A2 or A | | Infinite | Infinite | | Infinite |
| A3 or A- | | Infinite | Infinite | | Infinite |
| Baa1 or BBB+ | | Infinite | Infinite | | Infinite |
| Baa2 or BBB | | Infinite | Infinite | | Infinite |
| Baa3 or BBB- | | Zero | \$30,000,000 | | Zero |
| Below Baa3 or BBB- / NR | | Zero | Zero | | Zero |
| Notes: | ¹ It shall constitute an ATE if LIPA has been notified of the downgrade and within 20 days does not (a) provide a guarantee/insurance, (b) transfer to an acceptable counterparty, or (c) execute a CSA. ² insurance provisions and insurer event pertain to SIFMA/LIBOR basis swap only. It shall constitute an ATE if, within 30 days of notice, LIPA has not provided a substitute insurance policy or other credit enhancement reasonably acceptable (compliance with CSA provisions is deemed as credit enhancement reasonably acceptable). ³ It shall constitute an ATE if, within 30 days of receiving notice of an Insurer Event, LIPA does not provide a Credit Support Provider, deliver proof of ratings of A3 (Moody's) or A- (S&P), or execute a CSA. ⁴ LIPA is not subject to collateral posting on the Total Return Swaps. | | | | |

Appendix B (continued):

| Terms Applicable to Counterparties | | | | | |
|---|--|-----------------------------------|--|---------------------------------------|---------------------------------------|
| Counterparty (Moody's / S&P / Fitch) | Citibank Aa3 / A+ / A+ | JPMorgan A2 / A- / AA- | Merrill Lynch (BofA Corp.) A2 / A- / A+ | UBS Aa3 / A+ / AA- | Wells Fargo Aa2 / A+ / AA- |
| Additional Termination Event (below) | A3 (Moody's) or A- (S&P or Fitch) ¹ Baa3 (Moody's) or BBB- (S&P or Fitch) | Baa3 (Moody's) or BBB- (S&P) | A3 (Moody's) or A- (S&P) | A3 (Moody's) or A- (S&P) ² | Baa1 (Moody's) or BBB+ (S&P or Fitch) |
| Collateral Thresholds (Lowest Rating) | <i>N/A - No CSA</i> | <i>Moody's / S&P:</i> | <i>Moody's / S&P / Fitch:</i> | <i>N/A - No CSA</i> | <i>Moody's / S&P / Fitch:</i> |
| Aa3 or AA- and above | | Infinite | Infinite | | Infinite |
| A1 or A+ | | Infinite | Infinite | | Infinite |
| A2 or A | | Infinite | Infinite | | Infinite |
| A3 or A- | | Infinite | Infinite | | Infinite |
| Baa1 or BBB+ | | \$25,000,000 | Zero | | Zero |
| Baa2 or BBB | | \$10,000,000 | Zero | | Zero |
| Baa3 or BBB- | | Zero | Zero | | Zero |
| Below Baa3 or BBB- / NR | | Zero | Zero | | Zero |
| Notes: | ¹ It shall constitute an ATE if Citibank has been notified of the downgrade and within 20 days does not (a) provide a guarantee/insurance, (b) transfer to an acceptable counterparty, or (c) execute a CSA. ² May also include an equivalent rating determined by a nationally-recognized ratings service acceptable to both parties. It shall constitute an ATE if, within 30 days, UBS does not execute a CSA. | | | | |

| Appendix C | |
|--|------------------------|
| Long Island Power Authority & UDSA Floating Rate Exposure | 9/30/2020 |
| Fixed Rate Bonds | |
| 1998 A | 94,743,085 |
| 2000 A | 261,286,072 |
| 2003 C | 36,645,000 |
| 2010 B | 194,715,000 |
| 2011 A | 685,000 |
| 2012 A | 166,970,000 |
| 2012 B | 179,035,000 |
| 2014A | 413,070,000 |
| 2014B | 94,010,000 |
| 2015B | 110,370,000 |
| 2016B | 368,260,000 |
| 2017 | 345,000,000 |
| 2018 | 430,000,000 |
| 2019 A | 215,675,000 |
| 2019 B | 284,250,000 |
| 2020 A | 237,975,000 |
| 2020 B | 250,000,000 |
| 2020 C | 113,975,000 |
| Sub-Total (LIPA) | 3,796,664,157 |
| Utility Debt Securitization Authority | |
| UDSA Series 2013 | 1,614,161,000 |
| UDSA Series 2015 | 1,002,115,000 |
| UDSA Series 2016A | 636,770,000 |
| UDSA Series 2016B | 325,485,000 |
| UDSA Series 2017 | 367,770,000 |
| Sub-Total (UDSA) | 3,946,301,000 |
| Sub-Total (LIPA & UDSA) | 7,742,965,157 |
| Floating Rate Bonds | |
| 2013 A RCA | 200,000,000 |
| 2014 C Floating Rate Note | 150,000,000 |
| 2015 A MMD FRN Rate (1) | 200,000,000 |
| 2015 C Floating Rate Note | 149,000,000 |
| 2016 A MMD FRN Rate (1) | 175,000,000 |
| General Revenue Notes -1 | 95,000,000 |
| General Revenue Notes - 2 | 25,000,000 |
| General Revenue Notes - 3 | 0 |
| General Revenue Notes - 4 | 110,000,000 |
| General Revenue Notes - 5 | 100,000,000 |
| General Revenue Notes - 6 | 25,000,000 |
| Sub-Total | \$1,229,000,000 |
| TOTAL BONDS ISSUED (a) | \$8,971,965,157 |
| Total Floating Rate Bonds | \$1,229,000,000 |
| Net Floating Rate Exposure of Swaps | |
| Floating-to-Fixed (2) | (585,842,058) |
| Basis Swap (Floating) (3) | 243,795,375 |
| Total Net Floating Rate Exposure of Swaps | (342,046,683) |
| Cash & Short-Term Investments Net of Restricted Funds | (1,454,045,515) |
| NET FLOATING RATE BONDS (b) | (\$567,092,197) |
| Net Floating Rate Exposure (b) / (a) | -6.32% |

- 1) The 2015A and 2016A Bonds have associated Total Return Swaps whereby LIPA receives the rate paid on the Bonds (MMD Index plus a spread) and pays a rate of 69.4% 1-Month LIBOR plus a spread.
- 2) Swap with UBS treated as having floating rate exposure equal to the net differential between the floating receiver rate on the swap and the floating rate obligation on LIBOR-based bonds. For purposes of this analysis (netting LIBOR vs. LIBOR exposure) Series 2016A is assumed to be hedged; however, upon the refunding of Series 2012C by 2016A, an equal amount of the UBS swap, previously assigned to Series 2012, was reassigned per the swap documentation to both Series 2015C and GR CP-1 (\$86.775mm and \$88.225mm, respectively). As of March 23, 2018, GR Notes replaced GR CP-1.
- 3) Basis Swaps treated as having floating rate exposure equal to a SIFMA/LIBOR ratio of 100% minus the receiver ratio of 70.5%.