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GASB STATEMENT NO. 75 REPORT

FOR THE OHIO POLICE & FIRE PENSION FUND

MEASUREMENT DATE: DECEMBER 31, 2023

FOR FISCAL YEARS ENDING IN 2024





Cavanaugh Macdonald

CONSULTING, LLC

The experience and dedication you deserve

May 3, 2024

Mr. Scott K. Miller
Chief Financial Officer
Ohio Police & Fire Pension Fund
140 East Town Street
Columbus, OH 43215-5164

Dear Scott:

Presented in this report is information to assist the Ohio Police & Fire Pension Fund (OP&F) in providing information required under the Governmental Accounting Standards Board (GASB) Statement No. 75 to participating employers. This report has been prepared as of December 31, 2023 and is intended for use by OP&F for financial reporting for fiscal year 2024. The calculations in this report have been made on a basis that is consistent with our understanding of this accounting standard (GASB 75). Please note that the discount rate used to determine the Total OPEB Liability (TOL) changed from 4.27 percent at the Prior Measurement Date to 4.07 percent at the current Measurement Date.

The annual GASB 74 valuation, used as the basis for much of the information presented in this report was performed as of December 31, 2023. That report utilized information from an actuarial valuation prepared as of January 1, 2023 which was based upon data, furnished by OP&F staff, concerning active, inactive and retired members along with pertinent financial information. This information was reviewed for completeness and internal consistency but was not audited by us. The valuation results depend on the integrity of the data. If any of the information is inaccurate or incomplete, our results may be different and our calculations may need to be revised. Please see the January 1, 2023 actuarial valuation for additional details on the funding requirements for OP&F including actuarial assumptions and methods and the Plan's funding policy.

To the best of our knowledge, the information contained in this report is complete and accurate. We note that the allocation of net OPEB liability, OPEB expense, and deferred inflows and outflows to participating employers under GASB 75 will be provided by OP&F and, therefore, is not included in this report. The calculations were performed by qualified actuaries according to generally accepted actuarial principles and practices, as well as in conformity with Actuarial Standards of Practice issued by the Actuarial Standards Board. The calculations are based on the provisions of OP&F as of the Measurement Date, and on actuarial assumptions that are internally consistent and individually reasonable based on the actual experience of OP&F. In addition, the



Mr. Scott K. Miller
May 3, 2024
Page 2

calculations were completed in compliance with applicable law and, in our opinion, meet the requirements of GASB 75.

These results are only for financial reporting and may not be appropriate for funding purposes or other types of analysis. Calculations for purposes other than satisfying the requirements of GASB 75 may produce significantly different results. Future actuarial results may differ significantly from the current results presented in this report due to such factors as changes in plan experience or changes in economic or demographic assumptions. The effects of such changes are outside the scope of this report.

Larry Langer and Wendy Ludbrook are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. We are available to answer any questions on the material contained in this report or to provide explanations or further details as may be appropriate.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'LL'.

Larry F. Langer, ASA, EA, FCA, MAAA
Principal and Consulting Actuary

A handwritten signature in blue ink, appearing to read 'Wendy Ludbrook'.

Wendy T. Ludbrook, FSA, EA, FCA, MAAA
Consulting Actuary

A handwritten signature in blue ink, appearing to read 'Ryan Gundersen'.

Ryan Gundersen
Senior Consultant



TABLE OF CONTENTS

<u>Section</u>	<u>Item</u>	<u>Page No.</u>
I	Summary of Principal Results	1
II	Introduction	2
III	OPEB Expense	5
IV	Notes to Financial Statements	7
V	Required Supplementary Information	17

Appendix

A	Schedule of Changes in Net OPEB Liability	18
B	Summary of Main Benefit Provisions	19
C	Statement of Actuarial Assumptions	20



GASB STATEMENT NO. 75

OHIO POLICE & FIRE PENSION FUND

SECTION I - SUMMARY OF PRINCIPAL RESULTS

Ohio Police & Fire Pension Fund	
Valuation Date (VD):	January 1, 2023
Prior Measurement Date:	December 31, 2022
Measurement Date (MD):	December 31, 2023
Reporting Date:	December 31, 2024
Membership Data:	
Retirees and Beneficiaries	24,992
Inactive Members Eligible for Allowances	280
Active Employees	<u>29,931</u>
Total	55,203
Single Equivalent Interest Rate (SEIR):	
Long-Term Expected Rate of Return	7.50%
Municipal Bond Index Rate at Prior Measurement Date	3.65%
Municipal Bond Index Rate at Measurement Date	3.38%
Year in which Fiduciary Net Position is Projected to be Depleted	2038
Single Equivalent Interest Rate at Prior Measurement Date	4.27%
Single Equivalent Interest Rate at Measurement Date	4.07%
Net OPEB Liability:	
Total OPEB Liability (TOL)	\$1,517,537,904
Fiduciary Net Position (FNP)	<u>787,407,072</u>
Net OPEB Liability (NOL = TOL – FNP)	\$730,130,832
FNP as a percentage of TOL	51.89%
OPEB Expense:	\$32,010,078
Deferred Outflows of Resources:	\$389,176,528
Deferred Inflows of Resources:	\$653,270,042



SECTION II – INTRODUCTION

The Governmental Accounting Standards Board issued Statement No. 75 (GASB 75), “*Accounting and Financial Reporting for Postemployment Benefit Plans other than Pension*” in June 2015. GASB 75’s effective date for employers was the first fiscal year beginning after June 30, 2017. The GASB 75 information is for disclosure by participating employers for their fiscal years ending in 2023.

This report, prepared as of December 31, 2023 (the Measurement Date), presents information to assist OP&F in providing the required information under GASB 75 to the participating employers. Much of the material provided in this report, including the Net OPEB Liability, is based on the results of the GASB 74 report for OP&F. See that report, dated April 24, 2024 for more information on the member data, actuarial assumptions and methods used in developing the GASB 74 results.

GASB 75 replaces GASB 45 and represents a significant departure from the requirements of the prior statement. GASB 45 was issued as a “funding friendly” statement that required postemployment benefit plans other than pension plans (OPEB) to report items consistent with the results of OP&F’s actuarial valuations, as long as those valuations met certain parameters. GASB 75 basically separates accounting from funding by creating disclosure and reporting requirements that may or may not be consistent with the basis used for funding OP&F.

Two major changes in GASB 75 are the requirements to determine the Net OPEB Liability (NOL) and recognize an OPEB Expense (OE) in the financial statements of the participating employer.

GASB 75 requires the inclusion of a proportionate share of the Net OPEB Liability (NOL) on the participating employer’s balance sheet and a determination of an OPEB Expense (OE), which may bear little relationship to the funding requirements for OP&F. In fact, it is possible in some years for the NOL to be an asset or the OE to be an income item. The NOL is set equal to the Total OPEB Liability (TOL) minus the Fiduciary Net Position (FNP). The benefit provisions recognized in the calculation of the TOL are summarized in Appendix B. For the purposes of reporting under GASB 75, OP&F is assumed to be a cost-sharing multiple employer plan so the NOL and OE are allocated among the participating employers and non-employer entities. Those amounts, which are needed for the employer’s financial statements, will be determined by OP&F.

OE includes amounts for Service Cost (the Normal Cost under Entry Age Normal (EAN) for the year), interest on the TOL, employee contributions, administrative expenses, other cash flows during the year, recognition of increases/decreases in the TOL due to changes in the benefit structure, actual versus expected experience, actuarial assumption changes, and recognition of investment gains/losses. The actual experience and assumption change impacts are recognized



over the average expected remaining service life of OP&F membership as of the beginning of the measurement period, while investment gains/losses are recognized equally over five years. The development of the OE is shown in Section III. The unrecognized portions of each year's experience, assumption changes and investment gains/losses are used to develop Deferred Inflows and Outflows of Resources, which also must be included in the employer's Statement of Net Position.

Among the items needed for the TOL calculation is a discount rate, as defined by GASB, or a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan provisions applicable to the membership and beneficiaries of OP&F on the Measurement Date. If the FNP is not projected to be depleted at any point in the future, the long-term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, the FNP is projected to be depleted at a future measurement date, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long-term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The rate used, if necessary, for this purpose is the monthly average of the Bond Buyers General Obligation 20-year Municipal Bond Index Rate (formerly published monthly by the Board of Governors of the Federal Reserve System) (3.38 percent).

Our calculations indicate that the FNP is projected to be depleted by fiscal year 2038 so the Municipal Bond Index Rate is used in the determination of the SEIR for the December 31, 2022 and the December 31, 2023 TOL. The SEIR is 4.07 percent at December 31, 2023 and 4.27 percent at December 31, 2022. The SEIR is comprised of the long-term expected rate of return of 7.50 percent and the Municipal Bond Index Rate of 3.65 percent as of December 31, 2022, and the long-term expected rate of return of 7.50 percent and the Municipal Bond Index Rate of 3.38 percent as of December 31, 2023.

The FNP projections are based upon OP&F's financial status on the Measurement Date, the indicated set of methods and assumptions, and the requirements of GASB 74 and 75. As such, the FNP projections are not reflective of the cash flows and asset accumulations that would occur on an ongoing plan basis, reflecting the impact of future members. Therefore, the results of this test do not necessarily indicate whether or not the fund will actually run out of money, the financial condition of OP&F, or OP&F's ability to make benefit payments in future years.



The sections that follow provide the results of all the required aggregate calculations, presented in the order laid out in GASB 75 for note disclosure and Required Supplementary Information (RSI). OP&F will prepare the calculation of the proportionate share of the NOL, OPEB Expense and Deferred Inflows and Outflows for each participating employer or non-employer contributing entity.



SECTION III – OPEB EXPENSE

As noted earlier, the collective OPEB Expense (OE) consists of a number of different items. GASB 75 refers to the first as Service Cost, which is the Normal Cost using the Entry Age Normal (EAN) actuarial funding method. The second item is interest on the TOL at the long-term rate of return in effect as of the Prior Measurement Date.

The next three items refer to any changes that occurred in the TOL (i.e., actuarial accrued liability (AAL) under EAN) due to:

- benefit changes,
- actual versus expected experience, or
- changes in actuarial assumptions.

Benefit changes, which are reflected immediately, will increase OE if there is a benefit improvement for existing System members, or decrease OE if there is a benefit reduction. For the year ended December 31, 2023 there were no benefit changes recognized.

The next item to be recognized is the portion of current year changes in TOL due to actual versus expected experience for the year. The portion to recognize in the current year is determined by spreading the total change over the average expected remaining service life of the entire OP&F membership at the beginning of the measurement period. The average expected remaining service life of active members is the average number of years the active members are expected to remain in covered employment. At the beginning of the measurement period, this number is 15.37. The average expected remaining service life of the inactive members is zero. Therefore, the recognition period is the weighted average of these two amounts, or 8.34 years.

The last item under changes in TPL is changes in actuarial assumptions or other inputs. Since the Prior Measurement Date, the SEIR decreased from 4.27 percent to 4.07 percent and all other actuarial assumptions were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. Please see Appendix C for a description of the assumptions and changes. The change in actuarial assumptions is recognized over the average expected remaining service life of the entire System membership, using the same approach that applied to experience gains and losses as described earlier.

Member contributions for the year and projected earnings on the FNP at the long-term expected rate of return are subtracted from the amount determined thus far. One-fifth of current-period difference between projected and actual earnings on the FNP is recognized in the OE.



The current year portions of previously determined experience, assumption changes and earnings amounts, recognized as Deferred Outflows of Resources and Deferred Inflows of Resources are included next. Deferred Outflows of Resources are added to the OE while Deferred Inflows of Resources are subtracted from the OE. Finally, administrative expenses and other miscellaneous items are included.

The calculation of the collective OE for the year ended December 31, 2023 is shown in the following table.

**Collective OPEB Expense
For the Year Ended December 31, 2023**

Ohio Police & Fire Pension Fund	2023
Service Cost	\$38,270,177
Interest on the Total OPEB Liability	63,942,266
Current-period Benefit Changes	0
Expensed portion of current-period difference between expected and actual experience in the total OPEB liability	(3,719,634)
Expensed portion of current-period changes of assumptions	3,650,100
Member Contributions	0
Projected Earnings on Plan Investments	(56,571,699)
Expensed portion of current-period differences between actual and projected earnings on plan investments	(2,639,924)
Administrative Expense	416,709
Other	0
Recognition of beginning deferred outflows of resources as OPEB expense	172,003,895
Recognition of beginning deferred inflows of resources as OPEB expense	(183,341,812)
Total OPEB Expense	\$32,010,078

Note: Average expected remaining service life for all members is 8.34.



SECTION IV – NOTES TO FINANCIAL STATEMENTS

The material presented herein will follow the order presented in GASB 75. Paragraph numbers are provided for ease of reference. Amounts are shown in the aggregate. OP&F will determine the proportionate share of certain amounts for individual employers as required by GASB 75.

Paragraph 89: The information required is to be prepared by OP&F and/or the individual employer.

Paragraph 90: The information required is to be prepared by the individual employer.

Paragraph 91(a) – (d): The information required is to be supplied by OP&F.

Paragraph 92: This paragraph requires information to be disclosed regarding the actuarial assumptions and other inputs used to measure the TOL. The complete set of actuarial assumptions and other inputs utilized in developing the TOL are outlined in Appendix C. The TOL as of December 31, 2023 was determined based on an actuarial valuation prepared as of January 1, 2023, using the following actuarial assumptions and other inputs:

Price Inflation	2.75 percent
Salary increases, including price inflation	3.50 to 10.50 percent
Long-term Rate of Return, net of investment expense, including price inflation	7.50 percent
Municipal Bond Index Rate	
Prior Measurement Date	3.65 percent
Measurement Date	3.38 percent
Year FNP is projected to be depleted	2038
Single Equivalent Interest Rate, net of plan investment expense, including price inflation	
Prior Measurement Date	4.27 percent
Measurement Date	4.07 percent
Healthcare Cost Trend Rate	N/A



Mortality

Service Retiree and Vested Former Member Mortality

Mortality for service retirees is based on the Pub-2010 Below-Median Safety Amount-Weighted Healthy Retiree mortality table with rates adjusted by 96.2 percent for males and 98.7 percent for females. All rates are projected using the MP-2021 Improvement Scale.

Disabled Mortality

Mortality for disabled retirees is based on the Pub-2010 Safety Amount-Weighted Disabled Retiree mortality table with rates adjusted by 135 percent for males and 97.9 percent for females. All rates are projected using the MP-2021 Improvement Scale.

Contingent Annuitant Mortality

Mortality for contingent annuitants is based on the Pub-2010 Below-Median Safety Amount-Weighted Contingent Annuitant Retiree mortality table with rates adjusted by 108.9 percent for males and 131 percent for females. All rates are projected using the MP-2021 Improvement Scale.

Pre-Retirement Mortality

Mortality for active members is based on the Pub-2010 Below-Median Safety Amount-Weighted Employee mortality table. All rates are projected using the MP-2021 Improvement Scale.

The actuarial assumptions used in the valuation were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. The next review of the actuarial assumptions is to be completed for adoption with the January 1, 2027 valuation.

Paragraph 93:

(a): Benefit-related costs are all provided by OP&F.

(b): The mortality assumptions above were developed during the most recent experience study.



(c): The actuarial assumptions used in the valuation were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. The next review of the actuarial assumptions is to be completed for adoption with the January 1, 2027 valuation.

(d): The alternative measurement method was not used.

(e): The disclosure of the sensitivity of the Net OPEB Liability to changes in the healthcare cost trend rate. The TOL is based on a medical benefit that is a flat dollar amount, therefore, it is unaffected by a healthcare cost trend rate. An increase or decrease in the trend rate would have no effect on the TOL.

Paragraph 94:

(a): Discount rate (SEIR). The discount rate used to measure the TOL at December 31, 2023 was 4.07 percent. The projection of cash flows used to determine the discount rate was performed in accordance with GASB 74. On that basis, OP&F's FNP was projected to be depleted in the year 2038, and as a result, the Municipal Bond Index Rate was used in the determination of the SEIR. The long-term assumed rate of return on investments of 7.50 percent was applied to periods before December 31, 2037 and the Municipal Bond Index Rate of 3.38 percent was applied to periods on and after December 31, 2037, resulting in a SEIR of 4.07 percent. The discount rate used to measure the TOL at the Prior Measurement Date was 4.27 percent.

(b): Projected cash flows. The projection of cash flows used to determine the discount rate assumed that plan contributions from members and OP&F will be made at the current contribution rates as set out in state statute:

- a. Employee contribution rate: N/A
- b. Employer contribution rate: 0.50 percent of covered payroll
- c. Administrative expenses in the prior year were projected forward with price inflation as an estimate for administrative expenses in current and future years. The portion of expenses in future years allocated to the current members was based on the proportionate share of covered payroll in each year for the remainder of the existing members to the total covered payroll for all members.

The FNP projections are based upon OP&F's financial status on the Measurement Date, the indicated set of methods and assumptions, and the requirements of GASB 74 and 75. As such, the FNP projections are not reflective of the cash flows and asset accumulations that would occur on an ongoing OP&F basis, reflecting the impact of future members.



Therefore, the results of this test do not necessarily indicate whether or not the fund will actually run out of money, the financial condition of OP&F, or OP&F's ability to make benefit payments in future years.

(c): Long-term rate of return. The long-term expected rate of return on pension plan investments is reviewed as part of regular experience studies prepared for OP&F about every five years. The current long-term expected rate of return was adopted by the Board of Directors in February 2022. The rate was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The assumption is intended to be a long-term assumption (30 to 50 years) and is not expected to change absent a significant change in the asset allocation, a change in the underlying inflation assumption, or a fundamental change in the market that alters expected returns in future years.

(d): Municipal bond rate. The SEIR (discount rate) determination uses the Municipal Bond Index Rate. The rate used is the monthly average of the Bond Buyers General Obligation 20-year Municipal Bond Index Rate (formerly published monthly by the Board of Governors of the Federal Reserve System). The rate was 3.65 percent on the Prior Measurement Date and 3.38 percent on the current Measurement Date.

(e): Period of projected benefit payments. Future benefit payments for all current plan members were projected through 2123.



(f): Assumed asset allocation. The target asset allocation and best estimates of geometric real rates of return for each major asset class as of the Measurement Date, as provided by OP&F's investment consultant, Wilshire, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return**
Domestic Equity	18.6%	4.1%
Non-U.S. Equity	12.4%	4.9%
Private Markets	10.0%	7.3%
Core Fixed Income*	25.0%	2.4%
High Yield Fixed Income	7.0%	4.1%
Private Credit	5.0%	6.8%
U.S. Inflation Linked Bonds*	15.0%	2.1%
Midstream Energy Infrastructure	5.0%	5.8%
Real Assets	8.0%	6.0%
Gold	5.0%	3.5%
Private Real Estate	12.0%	5.4%
Commodities	<u>2.0%</u>	3.5%
Total	125.0%	

*Levered 2x

**Geometric mean, net of expected inflation

(g): Sensitivity analysis. This paragraph requires disclosure of the sensitivity of the NOL to changes in the discount rate. The following presents the NOL of OP&F, calculated using the discount rate of 4.07 percent, as well as OP&F's NOL calculated using a discount rate that is 1-percentage-point lower (3.07 percent) or 1-percentage-point higher (5.07 percent) than the current rate. OP&F will provide the individual employer's proportionate share calculation.

	1% Decrease (3.07%)	Current Discount Rate (4.07%)	1% Increase (5.07%)
Total OPEB Liability	\$1,686,725,651	\$1,517,537,904	\$1,375,048,458
Fiduciary Net Position	<u>\$787,407,072</u>	<u>\$787,407,072</u>	<u>\$787,407,072</u>
Net OPEB Liability	\$899,318,579	\$730,130,832	\$587,641,386

Paragraph 95: The required information will be supplied by OP&F.



Paragraph 96:

(a)-(b): This information will be supplied by OP&F.

(c): The Measurement Date of the collective NOL is December 31, 2023. The TOL as of December 31, 2023 was determined based on the annual actuarial funding valuation report prepared as of January 1, 2023 using the SEIR, rolled forward one year using standard actuarial techniques.

(d): The actuarial assumptions were updated and adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. There was also a decrease in the discount rate from 4.27 percent at the Prior Measurement Date to 4.07 percent at the current Measurement Date. These changes in the actuarial assumptions affect the measurement of the TOL since the Prior Measurement Date.

(e): There were no changes in the benefit terms that affected measurement of the TOL since the Prior Measurement Date.

(f): The information will be supplied by OP&F.

(g): Please see Section III for the development of the collective OE. OP&F will provide the individual employer amounts.

(h): Since certain expense items are recognized over closed periods each year, the deferred portions of these items must be tracked annually. If the amounts will increase OE they are labeled Deferred Outflows of Resources. If the amounts serve to reduce OE they are labeled Deferred Inflows of Resources. The recognition of these amounts is accomplished on a level dollar basis, with no interest included in the deferred amounts. Experience gains/losses and the impact of changes in actuarial assumptions, or other inputs, if any, are recognized over the average expected remaining service life of the active and inactive OP&F members at the beginning of the measurement period. Investment gains and losses are recognized over a fixed five-year period.



The following tables provide a summary of the amounts of the collective Deferred Outflows of Resources and collective Deferred Inflows of Resources as of the Measurement Date (December 31, 2023). Per GASB 75, reporting of the differences between projected and actual earnings should be on a net basis, with only one Deferred Outflow or Inflow. This information is provided in the following table.

	Deferred Outflows of Resources	Deferred Inflows of Resources	Net Deferred Outflows/(Inflows) of Resources
Differences between expected and actual experience	\$35,110,017	\$134,176,834	(\$99,066,817)
Changes of assumptions	251,245,016	470,187,149	(218,942,133)
Differences between projected and actual earnings	<u>102,821,495</u>	<u>48,906,059</u>	<u>53,915,436</u>
Total	\$389,176,528	\$653,270,042	(\$264,093,514)



The following tables show the Deferred Outflows of Resources and Deferred Inflows of Resources separately to provide additional detail.

Ohio Police & Fire Pension Fund - Deferred Outflows of Resources				
	December 31, 2022	Additions	Recognition	December 31, 2023
Differences between expected and actual experience				
FY 2017 Base	\$ 0	\$ 0	\$ 0	\$ 0
FY 2018 Base	0	0	0	0
FY 2019 Base	0	0	0	0
FY 2020 Base	0	0	0	0
FY 2021 Base	42,486,071	0	7,376,054	35,110,017
FY 2022 Base	0	0	0	0
FY 2023 Base	0	0	0	0
Total	\$ 42,486,071	\$ 0	\$ 7,376,054	\$ 35,110,017
Changes of assumptions				
FY 2017 Base	\$ 148,724,572	\$ 0	\$ 80,828,573	\$ 67,895,999
FY 2018 Base	0	0	0	0
FY 2019 Base	100,830,463	0	28,483,182	72,347,281
FY 2020 Base	82,842,972	0	17,151,754	65,691,218
FY 2021 Base	22,409,284	0	3,890,501	18,518,783
FY 2022 Base	0	0	0	0
FY 2023 Base	0	30,441,835	3,650,100	26,791,735
Total	\$ 354,807,291	\$ 30,441,835	\$ 134,004,110	\$ 251,245,016
Differences between projected and actual earnings				
FY 2017 Base	\$ 0	\$ 0	\$ 0	\$ 0
FY 2018 Base	0	0	0	0
FY 2019 Base	0	0	0	0
FY 2020 Base	0	0	0	0
FY 2021 Base	0	0	0	0
FY 2022 Base	137,095,326	0	34,273,831	102,821,495
FY 2023 Base	0	0	0	0
Total	\$ 137,095,326	\$ 0	\$ 34,273,831	\$ 102,821,495
Total	\$ 534,388,688	\$ 30,441,835	\$ 175,653,995	\$ 389,176,528



Ohio Police & Fire Pension Fund - Deferred Inflows of Resources				
	December 31, 2022	Additions	Recognition	December 31, 2023
Differences between expected and actual experience				
FY 2017 Base	\$ 7,687,168	\$ 0	\$ 4,177,807	\$ 3,509,361
FY 2018 Base	0	0	0	0
FY 2019 Base	46,553,106	0	13,150,594	33,402,512
FY 2020 Base	60,722,538	0	12,571,954	48,150,584
FY 2021 Base	0	0	0	0
FY 2022 Base	25,423,561	0	3,611,301	21,812,260
FY 2023 Base	0	31,021,751	3,719,634	27,302,117
Total	\$ 140,386,373	\$ 31,021,751	\$ 37,231,290	\$ 134,176,834
Changes of assumptions				
FY 2017 Base	\$ 0	\$ 0	\$ 0	\$ 0
FY 2018 Base	85,701,420	0	41,602,632	44,098,788
FY 2019 Base	0	0	0	0
FY 2020 Base	0	0	0	0
FY 2021 Base	0	0	0	0
FY 2022 Base	496,632,791	0	70,544,430	426,088,361
FY 2023 Base	0	0	0	0
Total	\$ 582,334,211	\$ 0	\$ 112,147,062	\$ 470,187,149
Differences between projected and actual earnings				
FY 2017 Base	\$ 0	\$ 0	\$ 0	\$ 0
FY 2018 Base	0	0	0	0
FY 2019 Base	17,726,128	0	17,726,128	0
FY 2020 Base	3,135,140	0	1,567,569	1,567,571
FY 2021 Base	55,168,191	0	18,389,397	36,778,794
FY 2022 Base	0	0	0	0
FY 2023 Base	0	13,199,618	2,639,924	10,559,694
Total	\$ 76,029,459	\$ 13,199,618	\$ 40,323,018	\$ 48,906,059
Total	\$ 798,750,043	\$ 44,221,369	\$ 189,701,370	\$ 653,270,042

OP&F will provide the individual employers' balances of the collective Deferred Outflows of Resources and collective Deferred Inflows of Resources.



(i): Collective amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OE in future years as follows:

Year Ended December 31:	Deferred Outflows of Resources	Deferred Inflows of Resources	Net Deferred Outflows/(Inflows) of Resources
2024	\$162,721,421	\$171,306,798	(\$8,585,377)
2025	94,825,422	127,123,390	(32,297,968)
2026	81,723,159	100,188,567	(18,465,408)
2027	29,152,611	90,950,009	(61,797,398)
2028	12,212,680	77,875,365	(65,662,685)
Thereafter	8,541,235	85,825,913	(77,284,678)

OP&F will provide the individual employers' balances of the Deferred Outflows of Resources and Deferred Inflows of Resources.

(j): This will be provided by OP&F.



SECTION V – REQUIRED SUPPLEMENTARY INFORMATION

There are several tables of Required Supplementary Information (RSI) that need to be included in OP&F's financial statements:

Paragraphs 97(a) and (b): This information will be provided by OP&F.

Paragraph 98: Information about factors that significantly affect trends in the amounts reported in the schedules required by paragraph 97 should be presented as notes to the schedules. At this point only three years are being reported, but comments on additional years will be added as they occur.

Changes of benefit and funding terms:

No changes to the plan provisions were made by OP&F and reflected in the valuation performed as of January 1, 2023, January 1, 2022, January 1, 2021, January 1, 2020 and January 1, 2019.

The following changes to the plan provisions were made by OP&F and reflected in the valuation performed as of January 1, 2018:

- In the spring of 2017 the OP&F Board of trustees made the decision to restructure the retiree health care plan, ending the group-sponsored model. A new model was implemented on January 1, 2019. It provides eligible retirees with a fixed monthly stipend earmarked to pay for health care. This information is summarized in Appendix B.

Changes in actuarial assumptions:

All actuarial assumptions were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. The next review of the actuarial assumptions is to be completed for adoption with the January 1, 2027 valuation. There was also a decrease in the discount rate from 4.27 percent at the Prior Measurement Date to 4.07 percent at the current Measurement Date. These changes in the actuarial assumptions affect the measurement of the TOL since the Prior Measurement Date. Please see Appendix C for a description of the assumptions and changes.



APPENDIX A

ADDITIONAL INFORMATION

SCHEDULE OF CHANGES IN THE NET OPEB LIABILITY

Fiscal Year Ended December 31, 2023

Ohio Police & Fire Pension Fund			
	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) – (b)
Balances at December 31, 2022	\$1,501,612,290	\$789,641,178	\$711,971,112
Changes for the year:			
Service cost	38,270,177		38,270,177
Interest	63,942,266		63,942,266
Benefit changes	0		0
Difference between expected and actual experience	(31,021,751)		(31,021,751)
Changes in assumptions	30,441,835		30,441,835
Contributions - employer		14,118,199	(14,118,199)
Net investment income		69,771,317	(69,771,317)
Net benefit payments	(85,706,913)	(85,706,913)	0
Administrative expense		(416,709)	416,709
Other changes		0	0
Net changes	<u>15,925,614</u>	<u>(2,234,106)</u>	<u>18,159,720</u>
Balances at December 31, 2023	\$1,517,537,904	\$787,407,072	\$730,130,832



APPENDIX B

SUMMARY OF MAIN BENEFIT PROVISIONS

Following is a summary of the major Fund provisions used in the actuarial valuation of the Fund. For purposes of this report, only the post-retirement medical benefit is valued for liabilities. The full benefit provisions are included because they are relevant for assumptions and funding provisions.

Eligibility for Coverage

All pension benefit recipients are eligible to enroll in the plan. Members who were hired prior to July 1, 2013 are eligible to receive a pension at age 48 with 25 years of service or 62 with 15 years of service. Members who were hired after July 1, 2013 are eligible to receive a pension at age 52 with 25 years of service or age 62 with 15 years of service. In addition, a member is eligible to enroll in the plan if they are receiving a disability pension or they are the survivor of a member. A member may enroll a spouse, dependent children, generally until age 28, and sponsored dependents. Only benefit recipients are eligible for reimbursement of Medicare Part B reimbursement. Coverage begins at the time of OP&F retirement or the first of the following month, if the member requests this effective date.

Medicare Part B Premium Reimbursement

For service and disability retirements, as well as survivors, Ohio Police & Fire reimburses the standard Medicare Part B premium (\$107.00 per month for 2023) provided the retiree is not eligible for reimbursement from any other sources.

2023 Monthly Health Care Plan Monthly Stipend Levels

In the spring of 2017 the OP&F Board of trustees made the decision to restructure the retiree health care plan, ending the group-sponsored model. A new model was implemented on Jan. 1, 2019 providing eligible retirees with a fixed monthly stipend earmarked to pay for health care. The below table summarizes the stipends as of January 1, 2023.

	Medicare Status		Monthly	Monthly	Total OP&F
	Retiree	Spouse	Medical/Rx Stipend	Medicare Part B	Support for Health Care
Retiree Only	Medicare	Non-Med	\$143	\$107	\$250
	Non-Med	Non-Med	\$685	\$0	\$685
Retiree + Spouse	Medicare	Medicare	\$239	\$107	\$346
	Medicare	Non-Med	\$525	\$107	\$632
	Non-Med	Medicare	\$788	\$0	\$788
	Non-Med	Non-Med	\$1,074	\$0	\$1,074
Retiree + Dependent(s)	Medicare	Non-Med	\$203	\$107	\$310
	Non-Med	Non-Med	\$865	\$0	\$865
Retiree + Spouse + Dependent(s)	Medicare	Either	\$525	\$107	\$632
	Non-Med	Either	\$1,074	\$0	\$1,074
Surviving Spouse	Medicare		\$143	\$107	\$250
	Non-Med		\$685	\$0	\$685



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

Assumptions

The actuarial assumptions were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. The next review of the actuarial assumptions is to be completed for adoption with the January 1, 2027 valuation.

Investment Return (Discount Rate)

Long-term rate of return on Plan Assets – 7.50 percent per annum, compounded annually.

GASB 75 – 4.07 percent per annum, compounded annually (using 12/31/2023 Municipal Bond Index rate of 3.38 percent.)

Salary Increase Rates

Assumed annual salary increases are as follows:

Years of Service	Salary Increase Rate
Less than 1	10.50%
1	9.00%
2	8.00%
3	6.00%
4	4.50%
5 or more	3.75%

Stipend Increase rate:

The stipend is not assumed to increase over the projection period.

Payroll Growth Rate

Payroll growth is based on open group projections with salary inflation assumption of 3.25 percent for initial salaries for new entrants.



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

Withdrawal Rates

The following sample withdrawal rates are based on service (for causes other than death, disability, or retirement):

Years of Service	Firefighters	Police
0	5.00%	14.00%
5	1.00%	2.00%
10	0.75%	1.50%
15	0.50%	1.00%
20	0.20%	0.65%
24	0.20%	0.25%

Rates of Disability

The following are sample rates of disability and occurrence of disability by type:

Age	Firefighters	Police
20	0.0004%	0.0005%
25	0.0020%	0.0032%
30	0.0088%	0.0401%
35	0.0364%	0.0693%
40	0.0816%	0.1814%
45	0.1388%	0.2399%
50	0.5348%	0.6080%
55	0.8100%	0.5036%
60	1.2240%	0.9351%
64	2.8760%	1.3946%

Type of Disability	
On duty permanent and total	17%
On duty partial	58%
Off duty ordinary	25%



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

Retirement Rates

The following rates apply to members who are not currently in DROP, but either have reached DROP eligibility or may become eligible for DROP in the future. Upon first eligibility for retirement, the rate is 15 percent for Firefighters and 20 percent for Police. After first eligibility the rates are as follows:

Years of Service	Firefighters	Police
25	15%	20%
26	5%	8%
27	5%	8%
28	5%	8%
29	5%	8%
30	5%	8%
31	5%	15%
32	5%	15%
33	5%	15%
34	5%	15%
35+	100%	100%

The following rates apply to members who will not reach retirement eligibility prior to age 62:

Firefighters

Age	Years of Service	
	15-23	24
62	25%	15%
63	25%	15%
64	25%	15%
65	100%	100%

Police

Age	Years of Service	
	15-23	24
62	25%	20%
63	25%	20%
64	25%	20%
65	100%	100%

Deferred Retirement Option Plan Elections

80 percent of members who do not retire when first eligible are assumed to elect DROP.



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

DROP Retirement Rates

The following rates of retirement apply to members in DROP as of the valuation date:

Years of Service	Firefighters	Police
25	4.75%	7.25%
26	4.75%	6.00%
27	4.75%	6.25%
28	6.00%	6.00%
29	9.00%	8.50%
30	15.75%	16.75%
31	11.00%	16.25%
32	44.00%	50.00%
33+	100.00%	100.00%

Retirement Age for Inactive Vested Participants

Commencement at age 48 and 25 years of service from full-time hire date, whichever is later.

Service Retiree and Vested Former Member Mortality

Mortality for service retirees is based on the Pub-2010 Below-Median Safety Amount-Weighted Healthy Retiree mortality table with rates adjusted by 96.2 percent for males and 98.7 percent for females. All rates are projected using the MP-2021 Improvement Scale.

Disabled Mortality

Mortality for disabled retirees is based on the Pub-2010 Safety Amount-Weighted Disabled Retiree mortality table with rates adjusted by 135 percent for males and 97.9 percent for females. All rates are projected using the MP-2021 Improvement Scale.

Contingent Annuitant Mortality

Mortality for contingent annuitants is based on the Pub-2010 Below-Median Safety Amount-Weighted Contingent Annuitant Retiree mortality table with rates adjusted by 108.9 percent for males and 131 percent for females. All rates are projected using the MP-2021 Improvement Scale.



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

Pre-Retirement Mortality

Mortality for active members is based on the Pub-2010 Below-Median Safety Amount-Weighted Employee mortality table. All rates are projected using the MP-2021 Improvement Scale

Member Participation

For medical and prescription drug stipends, 60 percent of eligible non-Medicare members are assumed to elect coverage and 80 percent of Medicare eligible members are assumed to elect coverage. 50 percent of non-Medicare members who elect coverage are assumed to elect coverage for their spouses and children, and 60 percent of Medicare members who elect coverage are assumed to elect coverage for their spouses and children. 70 percent of future Medicare eligible members are assumed to elect the Medicare Part B benefit. Additionally, 25 percent of all non-Medicare members who waived coverage are assumed to elect plan coverage once they become Medicare eligible.

Age of Spouse

Wives are assumed to be three years younger than their husbands.

Dependent Children

Each member is assumed to have two children, born when the member was age 26. Dependency is assumed to cease when the child is 22.

Administrative Expense

For projection purposes, future administrative expenses are assumed to increase at the assumed inflation assumption of 2.75 percent.

Unknown Data for Members

Same as those exhibited by members with similar known characteristics.

Data

Census and Assets: The valuation was based on members of OP&F as of January 1, 2023 and does not take into account future members. All census and asset data was supplied by OP&F.



APPENDIX C

STATEMENT OF ACTUARIAL ASSUMPTIONS

Changes in actuarial assumptions since the January 1, 2022 valuation:

The assumptions used for the January 1, 2022 actuarial valuation are based on the quinquennial experience review prepared as of December 31, 2021 and adopted by the Board of Trustees on October 26, 2022. Material assumptions and methods that were changed since the prior valuation:

None