

State Police Retirement System

GASB No. 74 Accounting Valuation Report

As of June 30, 2025





December 3, 2025

Board of Trustees
Kentucky Retirement Systems
Perimeter Park West
1260 Louisville Road
Frankfort, KY 40601

Re: GASB No. 74 Reporting – Actuarial Information – State Police Retirement System

Dear Members of the Board:

This report provided herein contains certain information for the **State Police Retirement System (SPRS)** in connection with the Governmental Accounting Standards Board (GASB) Statement No. 74, “Financial Reporting for Postemployment Benefit Plans Other than Pension Plans” for the fiscal year ending June 30, 2025. A separate report will be provided at a later date with additional accounting information determined in accordance with GASB Statement No. 75, “Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions”.

The liability calculations presented in this report were performed for the purpose of satisfying the requirements of GASB No. 74 and are not applicable for other purposes, such as determining the plan’s funding requirements. The plan’s liability for other purposes may produce significantly different results. This report may be provided to parties other than the Board of Trustees of the Kentucky Retirement Systems only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The total OPEB liability, net OPEB liability, and sensitivity information shown in this report are based on an actuarial valuation date of June 30, 2024. The total OPEB liability was rolled-forward from the valuation date to the plan’s fiscal year ending June 30, 2025, using generally accepted actuarial principles. GASB No. 74 requires the disclosure of a 10-year history of certain information in the Required Supplementary Information within the annual financial report. The exhibits provided in this report include the applicable information for historical years that were calculated in accordance with this accounting standard. Information disclosed for years prior to June 30, 2017 were prepared by the prior actuary.

Actuarial Assumptions

The discount rate used to calculate the total OPEB liability increased from 6.08% to 6.24% (see further discussion on the calculation of the single discount rate later in this letter). The assumed increase in future health care costs, or trend assumption, was reviewed during the June 30, 2024 valuation process and was updated to better reflect the plan’s anticipated long-term healthcare cost increases. In general, the updated assumption is assuming higher future increases in pre-Medicare and Medicare healthcare costs.

The Total OPEB Liability as of June 30, 2025 is determined using these updated assumptions. It is our opinion that these procedures for determining the information contained in these reports are reasonable, appropriate, and comply with applicable requirements under GASB No. 74.

Plan Provisions

There have been no plan provision changes that would materially impact the total OPEB liability since June 30, 2024.

Implicit Employer Subsidy for Non-Medicare Retirees

The fully-insured premiums paid for the Kentucky Employees' Health Plan are blended rates based on the combined experience of active and retired members. Because the average cost of providing health care benefits to retirees under age 65 is higher than the average cost of providing health care benefits to active employees, there is an implicit employer subsidy for the non-Medicare eligible retirees. GASB No. 74 requires that the liability associated with this implicit subsidy be included in the calculation of the Total OPEB Liability.

Single Discount Rate

A single discount rate of 6.24% was used to measure the total OPEB liability for the fiscal year ending June 30, 2025. It is based on the expected rate of return on OPEB plan investments of 6.50% and a municipal bond rate of 5.20%, as reported in Bond Buyer's "20-Bond GO Index" as of June 30, 2025.

Based on the stated assumptions and the projection of cash flows as of each fiscal year ending, the plan's fiduciary net position and future contributions were projected to be sufficient to finance the future benefit payments of the current plan members. Therefore, the long-term expected rate of return on insurance plan investments was applied to all periods of the projected benefit payments paid from the retirement system. However, the cost associated with the implicit employer subsidy is not currently being included in the calculation of the plan's actuarial determined contributions, and it is our understanding that any cost associated with the implicit subsidy will not be paid out of the plan's trust. Therefore, the municipal bond rate was applied to future expected benefit payments associated with the implicit subsidy.

The projection of cash flows used to determine the single discount rate must include an assumption regarding actual employer contributions made each future year. Future contributions are projected assuming that the entire actuarially determined employer contribution is received by each plan each future year, calculated in accordance with the current funding policy.

401(h) Subaccount

Based on guidance issued by GASB in connection with GASB Statement No. 74, the member contributions to a 401(h) subaccount are considered OPEB assets. As a result, the reported fiduciary net position includes these 401(h) assets. Additionally, these member contributions and associated investment income and administrative expenses are included in the reconciliation of the fiduciary net position.



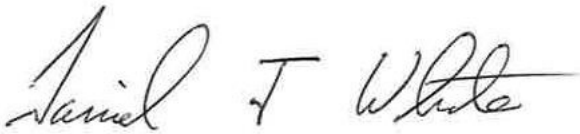
Additional Disclosures

This report is based upon information, furnished to us by the Kentucky Public Pensions Authority (KPPA), which includes benefit provisions, membership information, and financial data. We did not audit this data and information, but we did apply a number of tests and concluded that it was reasonable and consistent. GRS is not responsible for the accuracy or completeness of the information provided by KPPA. Please see the "Actuarial Valuation Report as of June 30, 2024" for additional discussion of the nature of the actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions. These reports should be considered together as a complete report for the fiscal year ending June 30, 2025.

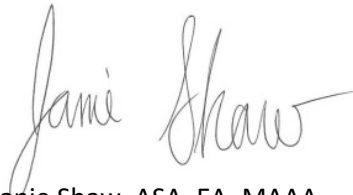
To the best of our knowledge, this report is complete and accurate and is in accordance with generally recognized actuarial practices and methods. All of the undersigned are Enrolled Actuaries, members of the American Academy of Actuaries and meet all of the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. In addition, all three are independent of KPPA and are experienced in performing valuations for large public retirement systems. This communication shall not be construed to provide tax advice, legal advice or investment advice.

Sincerely,

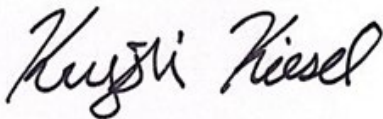
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Table of Contents

			Page
	COVER LETTER		
SECTION 1	SUPPORTING EXHIBITS		
	EXHIBIT 1	— SCHEDULE OF EMPLOYERS' NET OPEB LIABILITY	2
	EXHIBIT 2	— DEVELOPMENT OF THE SINGLE DISCOUNT RATE	3
	EXHIBIT 3	— SCHEDULE OF CHANGES IN EMPLOYERS' NET OPEB LIABILITY	4
	EXHIBIT 4	— SCHEDULE OF EMPLOYERS' CONTRIBUTIONS	5
	EXHIBIT 5	— SENSITIVITY OF THE NET OPEB LIABILITY TO CHANGES IN THE DISCOUNT RATE AND HEALTHCARE TREND RATE	7
APPENDIX 1	DEVELOPMENT OF BASELINE CLAIMS COST		



SECTION 1

EXHIBIT 1

Schedule of the Employers' Net OPEB Liability (\$ in thousands)

Year	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability/(Asset)	Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	Covered Employee Payroll ¹	Net OPEB Liability as a Percentage of Covered Employee Payroll
(1)	(2)	(3)	(4) = (2) - (3)	(5) = (3) / (2)	(6)	(7) = (4) / (6)
2025	\$ 298,847	\$ 291,043	\$ 7,804	97.39%	\$ 80,447	9.70%
2024	277,159	273,517	3,642	98.69%	71,992	5.06%
2023	263,450	248,109	15,341	94.18%	65,830	23.30%
2022	351,453	231,242	120,211	65.80%	48,600	247.35%
2021	364,899	247,318	117,581	67.78%	47,155	249.35%
2020	339,942	201,340	138,602	59.23%	48,231	287.37%
2019	312,553	201,206	111,347	64.38%	48,780	228.26%
2018	301,012	190,847	110,165	63.40%	50,064	220.05%
2017	313,234	178,838	134,396	57.09%	48,873	274.99%

Note:

¹ Based on derived compensation using the provided employer contribution information.



EXHIBIT 2

Development of Single Discount Rate

	<u>SPRS</u>
Single Discount Rate	6.24%
Long-Term Expected Rate of Return	6.50%
Long-Term Municipal Bond Rate ¹	5.20%

Notes:

¹ Fixed-income municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Bond Buyer's "20-Bond GO Index" as of June 30, 2025.

EXHIBIT 3

Schedule of the Employers' Net OPEB Liability

(\$ in thousands)

Change in the Net OPEB Liability	2025	2024	2023	2022	2021	2020	2019	2018	2017
Total OPEB liability									
Service Cost	\$ 4,479	\$ 4,115	\$ 4,092	\$ 5,605	\$ 5,218	\$ 5,389	\$ 4,816	\$ 6,087	\$ 4,147
Interest on the total OPEB liability	16,408	15,508	19,608	18,592	17,984	17,600	17,724	18,432	17,993
Benefit Changes	0	0	0	4,975	101	0	0	34	0
Difference between actual and expected experience	7,013	1,360	(98,425)	(5,952)	(6,318)	13,810	(14,295)	(23,320)	(573)
Assumption Changes	8,383	4,394	404	(21,937)	21,784	4,578	16,483	(358)	57,312
Benefit Payments ^{1,2}	(14,595)	(11,668)	(13,682)	(14,729)	(13,812)	(13,988)	(13,187)	(13,097)	(12,123)
Net Change in Total OPEB Liability	21,688	13,709	(88,003)	(13,446)	24,957	27,389	11,541	(12,222)	66,756
Total OPEB Liability - Beginning	\$ 277,159	\$ 263,450	\$ 351,453	\$ 364,899	\$ 339,942	\$ 312,553	\$ 301,012	\$ 313,234	\$ 246,478
Total OPEB Liability - Ending (a)	\$ 298,847	\$ 277,159	\$ 263,450	\$ 351,453	\$ 364,899	\$ 339,942	\$ 312,553	\$ 301,012	\$ 313,234
Plan Fiduciary Net Position									
Contributions - Employer ²	\$ 1,819	\$ 9,788	\$ 8,755	\$ 9,343	\$ 9,381	\$ 12,873	\$ 12,623	\$ 8,535	\$ 7,862
Contributions - Member	438	396	348	230	209	196	176	155	131
Benefit Payments ^{1,2}	(14,595)	(11,668)	(13,682)	(14,729)	(13,812)	(13,988)	(13,187)	(13,097)	(12,123)
OPEB Plan Net Investment Income	29,935	26,963	21,520	(10,847)	50,289	1,124	10,815	16,470	21,627
OPEB Plan Administrative Expense	(71)	(71)	(74)	(73)	(89)	(71)	(69)	(62)	(66)
Other	0	0	0	0	0	0	1 ⁴	8 ⁴	0
Net Change in Plan Fiduciary Net Position	17,526	25,408	16,867	(16,076)	45,978	134	10,359	12,009	17,431
Plan Fiduciary Net Position - Beginning	\$ 273,517	\$ 248,109	\$ 231,242	\$ 247,318	\$ 201,340	\$ 201,206	\$ 190,847	\$ 178,838	\$ 161,407
Plan Fiduciary Net Position - Ending (b)	\$ 291,043	\$ 273,517	\$ 248,109	\$ 231,242	\$ 247,318	\$ 201,340	\$ 201,206	\$ 190,847	\$ 178,838
Net OPEB Liability - Ending (a) - (b)	7,804	3,642	15,341	120,211	117,581	138,602	111,347	110,165	134,396
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	97.39%	98.69%	94.18%	65.80%	67.78%	59.23%	64.38%	63.40%	57.09%
Covered Employee Payroll³	\$ 80,447	\$ 71,992	\$ 65,830	\$ 48,600	\$ 47,155	\$ 48,231	\$ 48,780	\$ 50,064	\$ 48,873
Net OPEB Liability as a Percentage of Covered Employee Payroll	9.70%	5.06%	23.30%	247.35%	249.35%	287.37%	228.26%	220.05%	274.99%

Notes:

¹ Benefit payments are offset by insurance premiums received from retirees, Medicare Drug Reimbursements, and Humana Gain Share Payments (in applicable years).

² Employer contributions and benefit payments include expected benefits due to the implicit subsidy for members under age 65, equal to -\$69,334 for fiscal year 2025.

³ Based on derived compensation using the provided employer contribution information.

⁴ Northern Trust Settlement



EXHIBIT 4

Schedule of Employers' Contributions (\$ in thousands)

Fiscal Year Ending ¹	Actuarially Determined Contribution ²	Total Employer Contributions ³	Contribution Deficiency (Excess)	Covered Employee Payroll ⁴	Actual Contributions as a Percentage of Covered Payroll
2025	\$ 1,858	\$ 1,888	\$ (30)	\$ 80,447	2.35%
2024	10,158	10,163	(5)	71,992	14.12%
2023	9,289	9,289	0	65,830	14.11%
2022	8,782	8,782	0	48,600	18.07%
2021	9,285	9,285	0	47,155	19.69%
2020	13,133	13,133	0	48,231	27.23%
2019	13,283	13,288	(5)	48,780	27.24%
2018	9,062	9,397	(335)	50,064	18.77%
2017	9,222	9,222	0	48,873	18.87%
2016	8,553	10,237	(1,684)	45,551	22.47%

Notes:

¹ Data for years prior to 2018 is based on contribution data provided in the 2017 ACFR, based on calculations provided by the prior actuary.

² Actuarially determined contribution for fiscal year ending 2025 is based on the contribution rate calculated with the June 30, 2023 actuarial valuation.

³ Employer contributions do not include the expected implicit subsidy included in exhibit 3.

⁴ Based on derived compensation using the provided employer contribution information.



Notes to Schedule of Employers' Contributions for FYE 2025

The actuarially determined contribution effective for fiscal year ending 2025 that is documented in the schedule on the previous page was calculated as of June 30, 2023. Based on the June 30, 2023 actuarial valuation report, the actuarial methods and assumptions used to calculate the contribution are below:

Item	SPRS
Determine by the Actuarial Valuation as of:	June 30, 2023
Actuarial Cost Method:	Entry Age Normal
Asset Valuation Method:	20% of the difference between the market value of assets and the expected actuarial value of assets is recognized
Amortization Method:	Level Percent of Pay
Amortization Period:	30-year closed period at June 30, 2019 <i>Gains/losses incurring after 2019 will be amortized over separate closed 20-year amortization bases</i>
Payroll Growth Rate:	0.00%
Investment Return:	6.50%
Inflation:	2.50%
Salary Increases:	3.55% to 16.05%, varies by service
Mortality:	System-specific mortality table based on mortality experience from 2013-2022, projected with the ultimate rates from MP-2020 mortality improvement scale using a base year of 2023.
Healthcare Trend Rates: Pre-65	Initial trend starting at 6.80% at January 1, 2025, gradually decreasing to an ultimate trend rate of 4.05% over a period of 13 years. The 2024 premiums were known at the time of the valuation and were incorporated into the liability measurement.
Post-65	Initial trend starting at 8.50% at January 1, 2025, gradually decreasing to an ultimate trend rate of 4.05% over a period of 11 years. The 2024 premiums were known at the time of the valuation and were incorporated into the liability measurement.

EXHIBIT 5

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate and Healthcare Trend Rate (\$ in thousands)

Table 1. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

1.00% Decrease, 5.24%	Current Discount Rate, 6.24%	1.00% Increase, 7.24%
\$ 41,599	\$ 7,804	\$ (20,470)

Table 2. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate

1.00% Decrease	Current Healthcare Cost Trend Rate	1.00% Increase
\$ (19,405)	\$ 7,804	\$ 39,901

APPENDIX 1

Appendix 1

Development of Baseline Claims Cost

For non-Medicare retirees, the initial per capita costs were developed using retiree claims experience for calendar years 2022 through 2024. The claims were projected on an incurred claim basis, adjusted for prescription drug rebates, and loaded for administrative expense. The per capita costs shown in the table below also include HRA contributions for retirees on the CDHP plans. An inherent assumption in this methodology is that the projected future retirees will have a similar distribution by plan type as the current retirees. The fully-insured premiums paid to the Kentucky Employees' Health Plan are blended rates based on the combined experience of active and retired members. Because the average cost of providing health care benefits to retirees under age 65 is higher than the average cost of providing health care benefits to active employees, there is an implicit employer subsidy for the non-Medicare eligible retirees.

For Medicare retirees, the initial per capita costs were estimated based on the plan premiums effective January 1, 2025, and are used for both current and future retirees. An inherent assumption in this methodology is that the projected future retirees will have a similar distribution by plan type as the current retirees.

Age graded and sex distinct premiums are utilized by this valuation. These costs are appropriate for the unique age and sex distribution currently existing. Over the future years covered by this valuation, the age and sex distribution will most likely change. Therefore, our process "distributes" the average premium over all age/sex combinations and assigns a unique premium for each combination. The age/sex specific costs more accurately reflect the health care utilization and cost at that age.

2025 MONTHLY COSTS FOR THOSE NOT ELIGIBLE FOR MEDICARE		
AGE	MALE	FEMALE
40	\$ 444.22	\$ 721.81
50	720.06	887.05
60	1,223.77	1,205.00
64	1,488.14	1,404.41

2025 MONTHLY COSTS FOR THOSE ELIGIBLE FOR MEDICARE		
AGE	MALE	FEMALE
65	\$ 121.05	\$ 114.17
75	141.62	138.19
85	149.75	151.51

Blake Orth is a Member of the American Academy of Actuaries (MAAA) and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.



Blake Orth, FSA, EA, MAAA

