

South Carolina Public Employee  
Benefit Authority  
South Carolina Retirement Systems  
GASB Statements No. 67 and 68 Accounting and  
Financial Reporting for Pensions  
as of June 30, 2023





December 20, 2023

South Carolina Public Employee Benefit Authority  
South Carolina Retirement Systems  
P.O. Box 11960  
Columbia, SC 29211

**Subject:        GASB Reporting and Disclosure Information for Measurement Period Ending  
                      June 30, 2023**

Dear Members of the Board:

This report contains information for each of the five retirement systems (i.e. South Carolina Retirement System, Police Officers Retirement System, Judges and Solicitors Retirement System, General Assembly Retirement System, and South Carolina National Guard Supplemental Retirement Plan) in connection with the Governmental Accounting Standards Board (GASB) Statement No. 67, "Financial Reporting for Pension Plans." Additionally, this report provides employers participating in the South Carolina Retirement Systems with information that is required in connection with GASB Statement No. 68, "Accounting and Financial Reporting for Pensions." This information can be used by participating employers in financial reporting for fiscal years ending between (and including) June 30, 2023 and June 30, 2024. The information provided herein was prepared for the purpose of assisting the South Carolina Public Employee Benefit Authority (PEBA) and participating employers in compliance with the financial reporting and disclosure requirements of GASB Statement Nos. 67 and 68.

The liability calculations presented in this report were performed for the purpose of satisfying the requirements of GASB Statement Nos. 67 and 68 and are not applicable for other purposes, such as determining the plans' funding requirements. The calculation of the plan's liability for other purposes may produce significantly different results. This report may be provided to parties other than PEBA only in its entirety and only with the permission of PEBA.

The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation performed as of July 1, 2022. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year end, June 30, 2023, using generally accepted actuarial principles. There was no legislation enacted during the 2023 legislative session that had a material change in benefit provisions for any of the systems. Additionally, there were no assumption changes during the fiscal year.

This report provides the Collective Pension Amounts under GASB Statement No. 68 which will be allocated to employers participating in SCRS and PORS. The proportionate share of the Collective Pension Amounts for employers that participate in SCRS and PORS, the cost-sharing multiple employer systems maintained by PEBA, are provided in an appendix to this report.

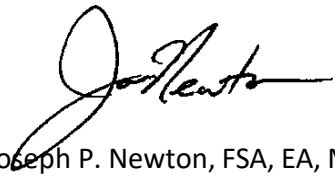
During the measurement period ending June 30, 2023, the State made a nonemployer contribution directly to SCRS and PORS. The appropriated funds have been determined not to qualify as a Special Funding Situation under GASB 68 for financial reporting purposes.

The information contained herein is based upon information furnished by PEBA, which includes benefit provisions, membership information, financial data, and employer contributions and employer credit from the State's contribution on the employers' behalf. 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 PEBA.

This report complements the actuarial valuation report as of July 1, 2022, provided for plan funding purposes, which was also provided to the Board and should be considered together as a complete report for the measurement date of June 30, 2023. Please see the actuarial valuation report as of July 1, 2022 for additional discussion of the actuarial valuation, including the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions.

To the best of our knowledge, this report is complete and accurate and is in accordance with generally recognized actuarial practices and methods. All three of the undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. Each of the following consultants are experienced in performing valuations for large public retirement systems.

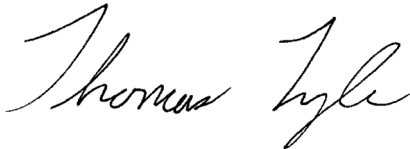
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## **SECTION 1**

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### **DISCUSSION**

# Discussion

## Accounting Standards

For pension plans that are administered through trusts or equivalent arrangements, Governmental Accounting Standards Board (GASB) Statement No. 67 establishes standards of financial reporting for separately issued financial reports and specifies the required approach for measuring the pension liability. Similarly, GASB Statement No. 68 establishes standards of financial reporting for employers whose employees participate in a pension plan.

The following discussion provides a summary of the information that is required to be disclosed under GASB Statement Nos. 67 and 68. A number of the required disclosure items under this standard are provided in this report. However, certain information, such as notes regarding accounting policies and investments, are not included in this report. Participating employers will be responsible for preparing and disclosing that information to comply with these accounting standards. Much of this additional information can be readily obtained from PEBA's 2023 Annual Report.

## Measurement of the Net Pension Liability

The net pension liability is the total pension liability, less the amount of the plan's fiduciary net position. In actuarial terms, this is analogous to the accrued liability as measured using the individual entry age normal actuarial cost method less the market value of assets (not the smoothed actuarial value of assets in the actuarial valuations based on the Board's adopted assumptions and methods).

The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation performed as of July 1, 2022. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year end, June 30, 2023, using generally accepted actuarial principles.

The single discount rate was based on an expected rate of return on pension plan investments of 7.00%. Based on the stated assumptions and the projection of cash flows, the pension plan's fiduciary net position and future contributions were projected to be available to finance all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

The projection of cash flows used to determine the single discount rate for the SCRS and PORS assumed that the funding policy specified in the South Carolina State Code will remain unchanged in future years. Similarly, it is also assumed that the current funding policy for the JSRS, GARS, and SCNG will be maintained by PEBA in future years.



## Methodology for Proportionate Shares

The proportionate share of the Collective Pension Amounts for employers that participate in SCRS and PORS, the cost-sharing multiple employer plans maintained by PEBA, are provided in an appendix to this report. The allocation of the employers' proportionate share of the Net Pension Liability and Pension Expense was determined using the employers' contributions for fiscal year 2023 (including contributions the employers made to the system on behalf of working retirees, and members in the State ORP) and allocated nonemployer credit for that year. This method is expected to be reflective of the employers' long-term contribution effort as well as be transparent to individual employers and their external auditors.

For the measurement period ending June 30, 2023, the State made a nonemployer contribution directly to SCRS and PORS. The appropriated funds have been determined not to qualify as a Special Funding Situation under GASB 68 for financial reporting purposes. The participating employers will receive a proportionate share of the Net Pension Liability and Pension Expense determined in accordance with paragraph 48 of GASB Statement No. 68. In accordance to paragraph 58 of GASB Statement No. 68, the participating employers will recognize revenue equal to their credited share of the State's appropriation.

## Summary of Population Statistics

The total pension liability described in this report is based on the plan membership as of July 1, 2022:

Membership Status	SCRS (1)	PORS (2)	JSRS <sup>1</sup> (3)	GARS (4)	SCNG (5)
Inactive plan members currently receiving benefits: <sup>2</sup>	150,856	20,840	224	337	5,097
Inactive plan members entitled to but not yet receiving benefits:	216,511	21,195	6	29	1,511
Active Plan Members:	200,989	26,606	141	72	12,047
Total Plan Members:	568,356	68,641	371	438	18,655

<sup>1</sup> JSRS count may differ from the valuation count due to unfilled positions.

<sup>2</sup> Includes retirees, beneficiaries, disabled members, and members receiving an annuity while contributing as a return to work retiree.

## Recognition of Deferred Outflows and Inflows of Resources

According to paragraph 33 of GASB Statement No. 68, *differences between expected and actual experience* and *changes in assumptions* are recognized in pension expense using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active employees and inactive members) determined as of the beginning of the measurement period.



At the beginning of the measurement period ending June 30, 2023, the expected remaining service lives of all employees was the following for each retirement system and the average of the expected remaining service lives for purposes of recognizing the applicable deferred outflows and inflows of resources established in the 2023 fiscal year.

<b>Development of Average Expected Remaining Service Life</b>	<b>SCRS</b>	<b>PORS</b>	<b>JSRS</b>	<b>GARS</b>	<b>SCNG</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>
Total expected remaining service lives of all employees (years):	2,090,174	259,370	1,454	366	193,112
Total plan members:	568,356	68,641	371	438	18,655
Average expected remaining service life (years):	3.678	3.779	3.919	0.836	10.352

Additionally, differences between projected and actual earnings on pension plan investments should be recognized in pension expense using a systematic and rational method over a closed five-year period. For this purpose, the deferred outflows and inflows of resources are recognized in the pension expense as a level dollar amount over the closed period identified above.



## SECTION 2

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### ACCOUNTING EXHIBITS

## Exhibit 1

### Schedule of the Employers' Net Pension Liability as of June 30, 2023

System (1)	Total Pension Liability (2)	Plan Fiduciary Net Position (3)	Employers' Net Pension Liability (Asset) (4)	Plan Fiduciary Net Position as a Percentage of the Total Pension Liability (5)	Covered Payroll <sup>1</sup> (6)	Net Pension Liability as a Percentage of Covered Payroll (7)
South Carolina Retirement System (SCRS)	\$ 58,464,402,454	\$ 34,286,961,942	\$ 24,177,440,512	58.6%	\$ 10,429,574,003	231.8%
Police Officers Retirement System (PORS)	9,450,021,576	6,405,925,370	3,044,096,206	67.8%	1,513,764,460	201.1%
Retirement System for Judges and Solicitors (JSRS)	462,761,211	221,630,424	241,130,787	47.9%	32,037,472	752.7%
Retirement System for the General Assembly (GARS)	68,492,141	45,559,104	22,933,037	66.5%	1,203,800	1,905.1%
National Guard Supplemental Retirement Plan (SCNG)	69,594,426	42,942,753	26,651,673	61.7%	Not Applicable <sup>2</sup>	Not Applicable <sup>2</sup>

Note:

<sup>1</sup> The projected payroll for fiscal year 2023 is based on the actuarial valuation as of July 1, 2022.

<sup>2</sup> The contributions and benefits associated with the SCNG are not determined as a function of payroll.



## Exhibit 2

### Schedule of Changes in the Employers' Net Pension Liability for the Measurement Period Ending June 30, 2023

Change in the Net Pension Liability (1)	SCRS (2)	PORS (3)	JSRS (4)	GARS (5)	SCNG (6)
<b>Total pension liability</b>					
Service Cost	\$ 1,120,136,248	\$ 228,881,186	\$ 9,790,651	\$ 263,391	\$ 782,528
Interest	3,869,176,834	616,200,159	31,468,448	4,698,104	4,705,697
Benefit Changes	0	0	0	0	0
Difference between actual and expected experience	502,095,945	165,789,524	(9,303,478)	(289,921)	(392,188)
Assumption Changes	0	0	0	0	0
Benefit Payments	(3,481,786,445)	(498,536,239)	(27,696,689)	(6,327,030)	(4,669,192)
<b>Net Change in Total Pension Liability</b>	2,009,622,582	512,334,630	4,258,932	(1,655,456)	426,845
<b>Total Pension Liability - Beginning</b>	56,454,779,872	8,937,686,946	458,502,279	70,147,597	69,167,581
<b>Total Pension Liability - Ending (a)</b>	<u>\$ 58,464,402,454</u>	<u>\$ 9,450,021,576</u>	<u>\$ 462,761,211</u>	<u>\$ 68,492,141</u>	<u>\$ 69,594,426</u>
<b>Plan Fiduciary Net Position</b>					
Contributions - Employer	\$ 2,133,552,984	\$ 342,450,695	\$ 20,164,385	\$ 6,308,000	\$ 5,289,728
Contributions - Nonemployer	88,705,515	12,470,282	2,900,000	0	0
Contributions - Member	1,035,918,238	179,071,491	4,236,239	155,019	0
Refunds of contributions to members	(145,376,093)	(25,819,847)	0	0	0
Retirement benefits	(3,309,644,814)	(468,123,375)	(27,685,689)	(6,312,993)	(4,669,192)
Death benefits	(26,765,538)	(4,593,017)	(11,000)	(14,037)	0
Net Investment Income	2,317,285,079	432,834,861	15,272,135	3,105,030	2,775,396
Administrative Expense	(17,205,224)	(3,153,575)	(109,871)	(22,789)	(20,803)
Net transfers to affiliated systems	(2,135,137)	2,080,088	190,324	(135,275)	0
Other	0	0	0	0	0
<b>Net Change in Plan Fiduciary Net Position</b>	2,074,335,010	467,217,603	14,956,523	3,082,955	3,375,129
<b>Plan Fiduciary Net Position - Beginning</b>	32,212,626,932	5,938,707,767	206,673,901	42,476,149	39,567,624
<b>Plan Fiduciary Net Position - Ending (b)</b>	<u>\$ 34,286,961,942</u>	<u>\$ 6,405,925,370</u>	<u>\$ 221,630,424</u>	<u>\$ 45,559,104</u>	<u>\$ 42,942,753</u>
<b>Net Pension Liability - Ending (a) - (b)</b>	24,177,440,512	3,044,096,206	241,130,787	22,933,037	26,651,673
<b>Plan Fiduciary Net Position as a Percentage of the Total Pension Liability</b>	58.6%	67.8%	47.9%	66.5%	61.7%
<b>Covered Payroll</b>	\$ 10,429,574,003	\$ 1,513,764,460	\$ 32,037,472	\$ 1,203,800	N/A
<b>Net Pension Liability as a Percentage of Covered Payroll</b>	231.8%	201.1%	752.7%	1,905.1%	N/A



## Exhibit 3

### Schedule of the Employers' and Nonemployer's Contributions for the Measurement Period Ending June 30, 2023

**Table 1. Schedule of Employers and Nonemployer's Contributions for SCRS, PORS, and JSRS**

System (1)	Actuarially Determined Contribution as a Percent of Covered Payroll <sup>1, 2</sup> (2)	Actual Contributions as a percentage of Covered Payroll (3)	Contribution Deficiency (Excess) (4)	Total Contributions for the 2022 Fiscal Year <sup>3</sup> (5)	Covered Payroll <sup>4</sup> (6)
South Carolina Retirement System (SCRS)	21.31%	21.31%	\$ 0	\$ 2,222,258,499	\$ 10,429,574,003
Police Officers Retirement System (PORS)	23.45%	23.45%	0	354,920,977	1,513,764,460
Retirement System for Judges and Solicitors (JSRS)	71.99%	71.99%	0	23,064,385	32,037,472

**Table 2. Schedule of Employer Contributions for GARS and the SCNG**

System (1)	Actuarially Determined Contribution <sup>5</sup> (2)	Total Employer Contributions for the 2022 Fiscal Year (3)	Contribution Deficiency (Excess) (4)	Covered Payroll <sup>6</sup> (5)
Retirement System for the General Assembly (GARS)	\$ 6,308,000	\$ 6,308,000	\$ 0	\$ 1,203,800
National Guard Supplemental Retirement Plan (SCNG)	3,984,148	5,289,728	(1,305,580)	N/A

<sup>1</sup> The actuarially determined contribution rate for SCRS and PORS is determined in accordance with South Carolina State Code. The contribution rate for fiscal year 2023 is determined in accordance with the Retirement System Funding and Administration Act of 2017.

<sup>2</sup> The actuarially determined contribution rate for JSRS adopted by the PEBA Board is 62.94% of pay. In addition, the State makes \$2.9 million in non-payroll based appropriations as part of the State's total contribution effort.

<sup>3</sup> Includes employer contributions on employee payroll and contributions remitted to SCRS on the payroll of employees participating in the State ORP. Total contributions for SCRS and PORS includes nonemployer contributions.

<sup>4</sup> Projected covered employee payroll is based on the actuarial valuation associated with the measurement date.

<sup>5</sup> The actuarially determined contributions are based on the funding policy maintained by the South Carolina Public Employee Benefit Authority.

<sup>6</sup> GARS was closed to new members beginning with the 2012 general election. Employer contributions to the SCNG are not a function of pay.



# Notes to Schedule of Employers' and Nonemployer's Contributions for Fiscal Year 2023

The actual contribution rates and the actuarially determined contribution rates documented in the schedule on the previous page for SCRS and PORS are determined in accordance with Sections 9-1-1085 and 9-11-225 of the South Carolina Code, respectively. Contribution requirements for JSRS, GARS and the SCNG are determined in accordance with funding policies established and maintained by the PEBA Board. The actuarial methods and assumptions used to determine the contribution rates reported in that schedule are as follows:

Item	SCRS	PORS	JSRS	GARS	SCNG
(1)	(2)	(3)	(4)	(5)	(6)
Actuarial Valuation Date:	July 1, 2021	July 1, 2021	July 1, 2021	July 1, 2021	July 1, 2021
Actuarial Cost Method:	Entry Age Normal	Entry Age Normal	Entry Age Normal	Entry Age Normal	Entry Age Normal
Asset Valuation Method:	5-year Smoothed	5-year Smoothed	5-year Smoothed	5-year Smoothed	5-year Smoothed
Amortization Method:	Level % of Pay	Level % of Pay	Level % of Pay	Level Dollar	Level Dollar
Amortization Period as of the actuarial valuation date:	26-year maximum, closed period	26-year maximum, closed period	26-year maximum, closed period	6-year closed period	15-year closed period
Investment Return:	7.00%	7.00%	7.00%	7.00%	7.00%
Inflation:	2.25%	2.25%	2.25%	2.25%	2.25%
Salary Increases:	3.00% plus step-rate increases for members with less than 21 years of service.	3.50% plus step-rate increases for members with less than 21 years of service.	3.00%	None.	None.
Mortality:	The 2020 Public Retirees of South Carolina Mortality Tables for Males and Females, both projected at Scale UMP from the year 2020. Male rates multiplied by 97% for non-educators and 95% for educators. Female rates multiplied by 107% for non-educators and 94% for educators.	The 2020 Public Retirees of South Carolina Mortality Tables for Males and Females, both projected at Scale UMP from the year 2020. Male rates are multiplied by 127% and female rates are multiplied by 107%	The 2020 Public Retirees of South Carolina Mortality Tables for Males and Females, both projected at Scale UMP from the year 2020. Male rates are multiplied by 95% and female rates are multiplied by 94%.	The 2020 Public Retirees of South Carolina Mortality Tables for Males and Females, both projected at Scale UMP from the year 2020. Male rates are multiplied by 97% and female rates are multiplied by 107%.	The 2020 Public Retirees of South Carolina Mortality Tables for Males and Females, both projected at Scale UMP from the year 2020. Male rates are multiplied by 127% and female rates are multiplied by 107%.
Comment on the development of the actuarially determined and actual contribution rate:	Contribution rate for fiscal year 2023 is determined in accordance with the Retirement System Funding and Administration Act of 2017.	Contribution rate for fiscal year 2023 is determined in accordance with the Retirement System Funding and Administration Act of 2017.	Contribution rate for fiscal year 2023 is determined by the 2021 actuarial valuation.	Contribution rate for fiscal year 2023 is determined by the 2021 actuarial valuation.	Contribution rate for fiscal year 2023 is determined by the 2021 actuarial valuation.



## Exhibit 4

### Sensitivity of the Net Pension Liability to Changes in the Discount Rate for the Measurement Period Ending June 30, 2023

System (1)	1.00% Decrease (6.00%) (2)	Current Discount Rate (7.00%) (3)	1.00% Increase (8.00%) (4)
South Carolina Retirement System (SCRS)	\$ 31,239,558,650	\$ 24,177,440,512	\$ 18,307,651,817
Police Officers Retirement System (PORS)	4,294,157,853	3,044,096,206	2,020,139,756
Retirement System for Judges and Solicitors (JSRS)	293,396,635	241,130,787	197,507,442
Retirement System for the General Assembly (GARS)	28,750,503	22,933,037	17,894,737
National Guard Supplemental Retirement Plan (SCNG)	35,541,310	26,651,673	19,414,641

## Exhibit 5

### Components of Aggregate Pension Expense For the Measurement Period Ending June 30, 2023

	<u>SCRS</u>	<u>PORS</u>	<u>JSRS</u>	<u>GARS</u>	<u>SCNG</u>
	(1)	(2)	(3)	(4)	(5)
1. Total service cost:	\$ 1,120,136,248	\$ 228,881,186	\$ 9,790,651	\$ 263,391	\$ 782,528
2. Interest on total pension liability:	3,869,176,834	616,200,159	31,468,448	4,698,104	4,705,697
3. Current-period benefit changes:	-	-	-	-	-
4. Member contributions:	(1,035,918,238)	(179,071,491)	(4,236,239)	(155,019)	-
5. Projected earnings on plan investments:	(2,246,380,633)	(416,912,940)	(14,456,127)	(2,972,558)	(2,790,724)
6. Administrative expense:	17,205,224	3,153,575	109,871	22,789	20,803
7. Other:	2,135,137	(2,080,088)	(190,324)	135,275	-
8. Recognition of deferred outflows/ (inflows) due to liabilities: <sup>1</sup>	661,423,385	109,720,953	4,073,811	(289,921)	(54,703)
9. Recognition of deferred outflows/ (inflows) due to assets: <sup>2</sup>	(424,615)	(1,641,478)	60,449	98,058	210,743
<b>10. Total Aggregate Pension Expense:</b>	<b>\$ 2,387,353,342</b>	<b>\$ 358,249,876</b>	<b>\$ 26,620,540</b>	<b>\$ 1,800,119</b>	<b>\$ 2,874,344</b>

<sup>1</sup> Liability experience and assumption changes.

<sup>2</sup> Difference between projected and actual investment experience.



## Exhibit 6

### Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For the Measurement Period Ending June 30, 2023 for SCRS

#### A. Outstanding Balance of Deferred Outflows and Inflows of Resources by Source

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 70,904,446	\$ 3,566,359,686	\$ 3,599,877,905	\$ (33,518,219)
2. Differences between expected and actual experience	502,095,945	0	712,714,994	105,646,480	607,068,514
3. Assumption Changes	0	0	777,502,788	0	777,502,788
<b>4. Total</b>	<b>\$ 502,095,945</b>	<b>\$ 70,904,446</b>	<b>\$ 5,056,577,468</b>	<b>\$ 3,705,524,385</b>	<b>\$ 1,351,053,083</b>

#### B. Outflows and Inflows of Resources by Source to be Recognized in Current Year Pension Expense

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 14,180,889	\$ 1,190,080,760	\$ 1,190,505,375	\$ (424,615)
2. Differences between expected and actual experience	136,513,308	0	292,952,715	38,598,853	254,353,862
3. Assumption Changes	0	0	407,069,523	0	407,069,523
<b>4. Total</b>	<b>\$ 136,513,308</b>	<b>\$ 14,180,889</b>	<b>\$ 1,890,102,998</b>	<b>\$ 1,229,104,228</b>	<b>\$ 660,998,770</b>

#### C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 56,723,557	\$ 2,376,278,926	\$ 2,409,372,530	\$ (33,093,604)
2. Differences between expected and actual experience	365,582,637	0	419,762,279	67,047,627	352,714,652
3. Assumption Changes	0	0	370,433,265	0	370,433,265
<b>4. Total</b>	<b>\$ 365,582,637</b>	<b>\$ 56,723,557</b>	<b>\$ 3,166,474,470</b>	<b>\$ 2,476,420,157</b>	<b>\$ 690,054,313</b>





## Exhibit 7

### Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For the Measurement Period Ending June 30, 2023 for PORs

#### A. Outstanding Balance of Deferred Outflows and Inflows of Resources by Source

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 15,921,921	\$ 650,754,724	\$ 657,620,470	\$ (6,865,746)
2. Differences between expected and actual experience	165,789,524	0	216,106,353	59,284,813	156,821,540
3. Assumption Changes	0	0	124,882,277	0	124,882,277
<b>4. Total</b>	<b>\$ 165,789,524</b>	<b>\$ 15,921,921</b>	<b>\$ 991,743,354</b>	<b>\$ 716,905,283</b>	<b>\$ 274,838,071</b>

#### B. Outflows and Inflows of Resources by Source to be Recognized in Current Year Pension Expense

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 3,184,384	\$ 215,442,423	\$ 217,083,901	\$ (1,641,478)
2. Differences between expected and actual experience	43,871,269	0	72,848,447	21,757,671	51,090,776
3. Assumption Changes	0	0	58,630,177	0	58,630,177
<b>4. Total</b>	<b>\$ 43,871,269</b>	<b>\$ 3,184,384</b>	<b>\$ 346,921,047</b>	<b>\$ 238,841,572</b>	<b>\$ 108,079,475</b>

#### C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 12,737,537	\$ 435,312,301	\$ 440,536,569	\$ (5,224,268)
2. Differences between expected and actual experience	121,918,255	0	143,257,906	37,527,142	105,730,764
3. Assumption Changes	0	0	66,252,100	0	66,252,100
<b>4. Total</b>	<b>\$ 121,918,255</b>	<b>\$ 12,737,537</b>	<b>\$ 644,822,307</b>	<b>\$ 478,063,711</b>	<b>\$ 166,758,596</b>



## Exhibit 8

### Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For the Measurement Period Ending June 30, 2023 for JSRS

#### A. Outstanding Balance of Deferred Outflows and Inflows of Resources by Source

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 816,008	\$ 22,287,535	\$ 22,228,698	\$ 58,837
2. Differences between expected and actual experience	0	9,303,478	2,590,632	9,491,476	(6,900,844)
3. Assumption Changes	0	0	8,058,129	0	8,058,129
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 10,119,486</b>	<b>\$ 32,936,296</b>	<b>\$ 31,720,174</b>	<b>\$ 1,216,122</b>

#### B. Outflows and Inflows of Resources by Source to be Recognized in Current Year Pension Expense

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 163,202	\$ 7,361,215	\$ 7,300,766	\$ 60,449
2. Differences between expected and actual experience	0	2,373,942	1,818,221	2,434,822	(616,601)
3. Assumption Changes	0	0	4,690,412	0	4,690,412
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 2,537,144</b>	<b>\$ 13,869,848</b>	<b>\$ 9,735,588</b>	<b>\$ 4,134,260</b>

#### C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 652,806	\$ 14,926,320	\$ 14,927,932	\$ (1,612)
2. Differences between expected and actual experience	0	6,929,536	772,411	7,056,654	(6,284,243)
3. Assumption Changes	0	0	3,367,717	0	3,367,717
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 7,582,342</b>	<b>\$ 19,066,448</b>	<b>\$ 21,984,586</b>	<b>\$ (2,918,138)</b>



## Exhibit 9

### Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For the Measurement Period Ending June 30, 2023 for GARS

#### A. Outstanding Balance of Deferred Outflows and Inflows of Resources by Source

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
	1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 132,472	\$ 4,566,371	\$ 4,304,740
2. Differences between expected and actual experience	0	289,921	0	289,921	(289,921)
3. Assumption Changes	0	0	0	0	0
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 422,393</b>	<b>\$ 4,566,371</b>	<b>\$ 4,594,661</b>	<b>\$ (28,290)</b>

#### B. Outflows and Inflows of Resources by Source to be Recognized in Current Year Pension Expense

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
	1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 26,494	\$ 1,515,308	\$ 1,417,250
2. Differences between expected and actual experience	0	289,921	0	289,921	(289,921)
3. Assumption Changes	0	0	0	0	0
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 316,415</b>	<b>\$ 1,515,308</b>	<b>\$ 1,707,171</b>	<b>\$ (191,863)</b>

#### C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
	1. Net Difference between projected and actual earnings on pension plan investments	\$ 0	\$ 105,978	\$ 3,051,063	\$ 2,887,490
2. Differences between expected and actual experience	0	0	0	0	0
3. Assumption Changes	0	0	0	0	0
<b>4. Total</b>	<b>\$ 0</b>	<b>\$ 105,978</b>	<b>\$ 3,051,063</b>	<b>\$ 2,887,490</b>	<b>\$ 163,573</b>



## Exhibit 10

### Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For the Measurement Period Ending June 30, 2023 for SCNG

#### A. Outstanding Balance of Deferred Outflows and Inflows of Resources by Source

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 15,328	\$ 0	\$ 4,099,079	\$ 3,429,929	\$ 669,150
2. Differences between expected and actual experience	0	392,188	159,934	3,862,891	(3,702,957)
3. Assumption Changes	0	0	2,668,214	0	2,668,214
<b>4. Total</b>	<b>\$ 15,328</b>	<b>\$ 392,188</b>	<b>\$ 6,927,227</b>	<b>\$ 7,292,820</b>	<b>\$ (365,593)</b>

#### B. Outflows and Inflows of Resources by Source to be Recognized in Current Year Pension Expense

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 3,066	\$ 0	\$ 1,354,053	\$ 1,143,310	\$ 210,743
2. Differences between expected and actual experience	0	37,885	56,453	578,617	(522,164)
3. Assumption Changes	0	0	467,461	0	467,461
<b>4. Total</b>	<b>\$ 3,066</b>	<b>\$ 37,885</b>	<b>\$ 1,877,967</b>	<b>\$ 1,721,927</b>	<b>\$ 156,040</b>

#### C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Established in Current Fiscal Year		Total due to Sources Established in Current and Prior Fiscal Years		
	Outflows of Resources	Inflows of Resources	Outflows of Resources	Inflows of Resources	Outflows/(Inflows) of Resources
1. Net Difference between projected and actual earnings on pension plan investments	\$ 12,262	\$ 0	\$ 2,745,026	\$ 2,286,619	\$ 458,407
2. Differences between expected and actual experience	0	354,303	103,481	3,284,274	(3,180,793)
3. Assumption Changes	0	0	2,200,753	0	2,200,753
<b>4. Total</b>	<b>\$ 12,262</b>	<b>\$ 354,303</b>	<b>\$ 5,049,260</b>	<b>\$ 5,570,893</b>	<b>\$ (521,633)</b>



## Exhibit 11

### Statement of Deferred Outflows and Inflows of Resources by Year to be recognized in Future Pension Expense

Period	SCRS (1)	PORS (2)	JSRS (3)	GARS (4)	SCNG (5)
Fiscal Year + 1	\$ 660,998,770	\$ 108,079,475	\$ 4,134,260	\$ (191,863)	\$ 156,040
Fiscal Year + 2	444,515,893	86,388,208	1,306,524	(4,661)	68,368
Fiscal Year + 3	(450,875,594)	(64,006,279)	(5,723,417)	(598,013)	(433,318)
Fiscal Year + 4	710,594,904	147,561,052	1,661,955	792,743	659,231
Fiscal Year + 5	(14,180,890)	(3,184,385)	(163,200)	(26,496)	(26,297)
Thereafter	0	0	0	0	(776,279)
<b>Total</b>	<b>\$ 1,351,053,083</b>	<b>\$ 274,838,071</b>	<b>\$ 1,216,122</b>	<b>\$ (28,290)</b>	<b>\$ (352,255)</b>

Note: The deferred outflow and inflow of resources that are projected to be recognized in future pension expense shown in the table above are for the established bases that are allocated in proportionate share to the participating employers in the System and do not include bases established for individual employers attributable to changes in proportionate shares and differences between employer contributions and the proportionate share of plan contributions.

## **APPENDIX A**

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### **COLLECTIVE PENSION AMOUNTS - SCRS**





















South Carolina Retirement System (SCRS) - Allocation of the Net Pension Liability and Pension Expense for the Measurement Period Ending June 30, 2023

Participating Employer	Net Pension Liability as of June 30, 2023			Pension Expense and Revenue Offset for Nonemployer Contribution							Outstanding Balance of Deferred Outflows of Resources					Outstanding Balance of Deferred Inflows of Resources			Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Periods Ending June 30							
	Actual Employer Contributions	Allocated Nonemployer Contribution Credit	Proportionate Share	Deferred Amounts			Proportionate Share of Aggregate Plan Pension Expense	Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Employer Pension Expense	Revenue Credit	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Outflow of Resources	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Inflow of Resources	2024	2025	2026	2027	2028	Thereafter
				Discount Rate 7.00%	Discount Rate Less 1.00% 6.00%	Discount Rate Plus 1.00% 8.00%																				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
Aggregate - SCRS	2,131,457,512	88,705,515	100.000000%	24,177,440,512	31,239,558,650	18,307,651,817	2,387,353,342	N/A	N/A	N/A	419,762,279	370,433,265	2,376,278,926	N/A	3,166,474,470	67,047,627	-	2,409,372,530	N/A	2,476,420,157	444,515,893	(450,875,594)	710,594,904	(14,180,890)	-	-
Employer																										
94504	13,402	258	0.000615%	148,757	192,208	112,642	14,689	152	14,841	258	2,583	2,279	14,621	661	20,144	413	-	14,824	2,205	17,442	2,250	(3,699)	4,237	(87)	-	-
94607	-	-	0.000000%	-	-	-	-	(12,846)	(12,846)	-	-	-	-	352	352	-	-	-	39,904	39,904	(16,974)	(15,665)	(6,913)	-	-	-
94608	-	-	0.000000%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,131,457,512	88,705,515	100.000000%	24,177,440,512	31,239,558,650	18,307,651,817	2,387,353,342	(1,774,042)	2,385,579,300	88,705,515	419,762,279	370,433,265	2,376,278,926	812,668,005	3,979,142,475	67,047,627	-	2,409,372,530	815,389,971	3,291,810,128	442,954,988	(451,650,371)	710,208,617	(14,180,888)	-	-





## **APPENDIX B**

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### **COLLECTIVE PENSION AMOUNTS - PORS**





















## **APPENDIX C**

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### **AGGREGATE COLLECTIVE PENSION AMOUNTS - SCRS & PORS**























South Carolina Public Employee Benefit Authority  
 Aggregation of GASB 68 Information for Participating Employers in SCRS and PORS for the Measurement Period Ending June 30, 2023

Participating Employer	Employer Allocation %	Net Pension Liability as of June 30, 2023			Outstanding Balance of Deferred Outflows of Resources					Outstanding Balance of Deferred Inflows of Resources					Pension Expense and Revenue Offset for Nonemployer Contribution		Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Periods Ending June 30,					
		Discount Rate 7.00%	Discount Rate Less 1.00% 6.00%	Discount Rate Plus 1.00% 8.00%	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Outflow of Resources	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Inflow of Resources	Employer Pension Expense	Revenue Credit	2024	2025	2026	2027	2028	Thereafter
		(3)	(4)	(5)																		
94232	N/A	476,564	672,265	316,260	22,428	10,372	68,150	99,890	200,840	5,875	-	68,968	137,586	212,429	60,332	-	29,451	(26,594)	(13,948)	(498)	-	-
94504	N/A	226,760	302,243	164,407	6,254	3,977	25,776	1,853	37,860	1,375	-	26,112	6,023	33,510	25,771	1,002	4,094	(6,746)	7,170	(168)	-	-
94607	N/A	2,227,961	3,142,876	1,478,532	104,850	48,490	318,603	127,890	599,833	27,466	-	322,427	39,904	389,797	335,636	-	117,639	(24,594)	119,320	(2,330)	-	-
94608	N/A	126,189	180,831	85,070	6,033	2,790	18,331	9,470	36,624	1,580	-	18,551	34,280	54,411	40,231	-	(697)	(15,263)	(1,692)	(134)	-	-
Total Allocated		27,221,536,718	35,533,716,503	20,327,791,573	563,020,185	436,685,365	2,811,591,227	956,478,578	4,767,775,355	104,574,769	-	2,849,909,099	959,797,841	3,914,281,709	2,743,447,151	101,175,797	528,985,565	(515,834,985)	857,708,363	(17,365,297)	-	-

