



Subject: Disclosure of Pension Information
June 30, 2019, Measurement Date

The Governmental Accounting Standards Board (GASB) issued Statement No. 68 entitled Accounting and Financial Reporting for Pension Plans in June 2012. The disclosure requirements applicable to employers participating in the South Carolina Retirement System or the Police Officers Retirement System are prescribed in paragraphs 48 through 82 of GASB 68.

The following information is provided in order to assist employers in meeting current disclosure requirements. Additional materials to assist employers in complying with GASB requirements, including an audit report on the Schedules of Employer and Nonemployer Allocations, Schedules of Pension Amounts by Employer, and Related Notes to the Schedules are available online at <http://www.peba.sc.gov/rgasb.html>.

Description of the Entity

The South Carolina Public Employee Benefit Authority (PEBA), created July 1, 2012, is the state agency responsible for the administration and management of the various Retirement Systems and retirement programs of the state of South Carolina, including the State Optional Retirement Program and the S.C. Deferred Compensation Program, as well as the state's employee insurance programs. As such, PEBA is responsible for administering the South Carolina Retirement Systems' five defined benefit pension plans. PEBA has an 11-member Board of Directors, appointed by the Governor and General Assembly leadership, which serves as custodian, co-trustee and co-fiduciary of the Systems and the assets of the retirement trust funds. The Retirement System Investment Commission (Commission as the governing body, RSIC as the agency), created by the General Assembly in 2005, has exclusive authority to invest and manage the retirement trust funds' assets. The Commission, an eight-member board, serves as co-trustee and co-fiduciary for the assets of the retirement trust funds. By law, the State Fiscal Accountability Authority (SFAA), which consists of five elected officials, also reviews certain PEBA Board decisions regarding the actuary of the Systems.

For purposes of measuring the net pension liability, deferred outflows and inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the Systems and additions to/deductions from the Systems fiduciary net position have been determined on the accrual basis of accounting as they are reported by the Systems in accordance with generally accepted accounting principles (GAAP). For this purpose, revenues are recognized when earned and expenses are recognized when incurred. Benefit and refund expenses are recognized when due and payable in accordance with the terms of the plan. Investments are reported at fair value.

PEBA issues a Comprehensive Annual Financial Report (CAFR) containing financial statements and required supplementary information for the Systems' Pension Trust Funds. The CAFR is publicly available through the Retirement Benefits' link on PEBA's website at www.peba.sc.gov, or a copy may be obtained by submitting a request to PEBA, 202 Arbor Lake Drive, Columbia, SC 29223. PEBA is considered a division of the primary government of the state of South Carolina and therefore, retirement trust fund financial information is also included in the comprehensive annual financial report of the state.

Plan Descriptions

- The South Carolina Retirement System (SCRS), a cost-sharing multiple-employer defined benefit pension plan, was established July 1, 1945, pursuant to the provisions of Section 9-1-20 of the South Carolina Code of Laws for the purpose of providing retirement and other benefits for teachers and employees of the state and its political subdivisions. SCRS covers employees of state agencies, public school districts, higher education institutions, other participating local subdivisions of government and individuals newly elected to the South Carolina General Assembly at or after the 2012 general election.
- The State Optional Retirement Program (State ORP) is a defined contribution plan that is offered as an alternative to SCRS to certain newly hired employees of state agencies, institutions of higher education, public school districts and individuals first elected to the S.C. General Assembly at or after the general election in November 2012. State ORP participants direct the investment of their funds into an account administered by one of four third party service providers. PEBA assumes no liability for State ORP benefits. Rather, the benefits are the liability of the four third party service providers. For this reason, State ORP assets are not part of the retirement systems' trust funds for financial statement purposes.
- The South Carolina Police Officers Retirement System (PORS), a cost-sharing multiple-employer defined benefit pension plan, was established July 1, 1962, pursuant to the provisions of Section 9-11-20 of the South Carolina Code of Laws for the purpose of providing retirement and other benefits to police officers and firefighters. PORS also covers peace officers, coroners, probate judges and magistrates.

In addition to the plans described above, PEBA also administers three single employer defined benefit pension plans, which are not covered in this report. They are the Retirement System for Members of the General Assembly of the State of South Carolina (GARS), the Retirement System for Judges and Solicitors of the State of South Carolina (JSRS), and the South Carolina National Guard Supplemental Retirement Plan (SCNG).

Membership

Membership requirements are prescribed in Title 9 of the South Carolina Code of Laws. A brief summary of the requirements under each system is presented below.

- SCRS - Generally, all employees of covered employers are required to participate in and contribute to the system as a condition of employment. This plan covers general employees and teachers and individuals newly elected to the South Carolina General Assembly beginning with the November 2012 general election. An employee member of the system with an effective date of membership prior to July 1, 2012, is a Class Two member. An employee member of the system with an effective date of membership on or after July 1, 2012, is a Class Three member.
- State ORP - As an alternative to membership in SCRS, certain newly hired state, public school, and higher education employees and individuals first elected to the S.C. General Assembly at or after the November 2012 general election have the option to participate in the State ORP. Contributions to the State ORP are at the same rates as SCRS. A direct remittance is required from the employer to the member's account with the ORP service provider for the employee contribution and a portion of the employer contribution (5 percent). A direct remittance is also required to SCRS for the remaining portion of the employer contribution and an incidental death benefit contribution, if applicable, which is retained by SCRS.
- PORS - To be eligible for PORS membership, an employee must be required by the terms of his employment, by election or appointment, to preserve public order, protect life and property, and detect crimes in the state; to prevent and control property destruction by fire; be a coroner in a full-time permanent position; or be a peace officer employed by the Department of Corrections, the Department of Juvenile Justice or the Department of Mental Health. Probate judges and coroners may elect membership in PORS. Magistrates are required to participate in PORS for service as a magistrate. PORS members, other than magistrates and probate judges, must also earn at least \$2,000 per year and devote at least 1,600 hours per year to this work, unless exempted by statute. An employee member of the system with an effective date of membership prior to July 1, 2012, is a Class Two member. An employee member of the system with an effective date of membership on or after July 1, 2012, is a Class Three member.

Benefits

Benefit terms are prescribed in Title 9 of the South Carolina Code of Laws. PEBA does not have the authority to establish or amend benefit terms without a legislative change in the code of laws. Key elements of the benefit calculation include the benefit multiplier, years of service, and average final compensation/current annual salary. A brief summary of the benefit terms for each system is presented below.

- SCRS - A Class Two member who has separated from service with at least five or more years of earned service is eligible for a monthly pension at age 65 or with 28 years credited service regardless of age. A member may elect early retirement with reduced pension benefits payable at age 55 with 25 years of service credit. A Class Three member who has separated from service with at least eight or more years of earned service is eligible for a monthly pension upon satisfying the Rule of 90 requirement that the total of the member's age and the member's creditable service equals at least 90 years. Both Class Two and Class Three members are eligible to receive a reduced deferred annuity at age 60 if they satisfy the five- or eight-year earned service requirement, respectively. An incidental death benefit is also available to beneficiaries of active and retired members of employers who participate in the death benefit program.

The annual retirement allowance of eligible retirees or their surviving annuitants is increased by the lesser of one percent or five hundred dollars every July 1. Only those annuitants in receipt of a benefit on July 1 of the preceding year are eligible to receive the increase. Members who retire under the early retirement provisions at age 55 with 25 years of service are not eligible for the benefit adjustment until the second July 1 after reaching age 60 or the second July 1 after the date they would have had 28 years of service credit had they not retired.

- PORS - A Class Two member who has separated from service with at least five or more years of earned service is eligible for a monthly pension at age 55 or with 25 years of service regardless of age. A Class Three member who has separated from service with at least eight or more years of earned service is eligible for a monthly pension at age 55 or with 27 years of service regardless of age. Both Class Two and Class Three members are eligible to receive a deferred annuity at age 55 with five or eight years of earned service, respectively. An incidental death benefit is also available to beneficiaries of active and retired members of employers who participate in the death benefit program. Accidental death benefits are also provided upon the death of an active member working for a covered employer whose death was a natural and proximate result of an injury incurred while in the performance of duty.

The retirement allowance of eligible retirees or their surviving annuitants is increased by the lesser of one percent or five hundred dollars every July 1. Only those annuitants in receipt of a benefit on July 1 of the preceding year are eligible to receive the increase.

Contributions

Actuarial valuations are performed annually by an external consulting actuary to ensure applicable contribution rates satisfy the funding parameters specified in Title 9 of the South Carolina Code of Laws. Under these provisions, SCRS and PORS contribution requirements must be sufficient to maintain an amortization period for the financing of the unfunded actuarial accrued liability (UAAL) over a period that does not exceed the number of years scheduled in state statute. Legislation in 2017 increased, but also established a ceiling for SCRS and PORS employee contribution rates. Effective July 1, 2017, employee rates were increased to a capped rate of 9.00 percent for SCRS and 9.75 percent for PORS. The legislation also increased employer contribution rates beginning July 1, 2017 for both SCRS and PORS by two percentage points and further scheduled employer contribution rates to increase by a minimum of one percentage point each year through July 1, 2022. If the scheduled contributions are not sufficient to meet the funding periods set in state statute, the board shall increase the employer contribution rates as necessary to meet the funding periods set for the applicable year. The maximum funding period of SCRS and PORS is scheduled to be reduced over a ten-year schedule from 30 years beginning fiscal year 2018 to 20 years by fiscal year 2028

Additionally, the Board is prohibited from decreasing the SCRS and PORS contribution rates until the funded ratio is at least 85 percent. If the most recent annual actuarial valuation of the Systems for funding purposes shows a ratio of the actuarial value of system assets to the actuarial accrued liability of the system (the funded ratio) that is equal to or greater than 85 percent, then the board, effective on the following July first, may decrease the then current contribution rates upon making a finding that the decrease will not result in a funded ratio of less than 85 percent. If contribution rates are decreased pursuant to this provision, and the most recent annual actuarial valuation of the system shows a funded ratio of less than 85 percent, then effective on the following July first, and annually thereafter as necessary, the board shall increase the then current contribution rates until a subsequent annual actuarial valuation of the system shows a funded ratio that is equal to or greater than 85 percent.

Required employee contribution rates¹ are as follows:

	<u>Fiscal Year 2020¹</u>	<u>Fiscal Year 2019¹</u>
SCRS		
Employee Class Two	9.00%	9.00%
Employee Class Three	9.00%	9.00%
State ORP		
Employee	9.00%	9.00%
PORS		
Employee Class Two	9.75%	9.75%
Employee Class Three	9.75%	9.75%

¹ Calculated on earnable compensation as defined in Title 9 of the South Carolina Code of Laws.

Required employer contribution rates¹ are as follows:

	<u>Fiscal Year 2020¹</u>	<u>Fiscal Year 2019¹</u>
SCRS		
Employer Class Two	15.41%	14.41%
Employer Class Three	15.41%	14.41%
Employer Incidental Death Benefit	0.15%	0.15%
State ORP		
Employer Contribution ²	15.41%	14.41%
Employer Incidental Death Benefit	0.15%	0.15%
PORS		
Employer Class Two	17.84%	16.84%
Employer Class Three	17.84%	16.84%
Employer Incidental Death Benefit	0.20%	0.20%
Employer Accidental Death Program	0.20%	0.20%

¹ Calculated on earnable compensation as defined in Title 9 of the South Carolina Code of Laws.

² Of this employer contribution, 5% of earnable compensation must be remitted by the employer directly to the ORP service provider to be allocated to the member's account with the remainder of the employer contribution remitted to the SCRS.

Actuarial Assumptions and Methods

Actuarial valuations of the plan involve estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. South Carolina state statute requires that an actuarial experience study be completed at least once in each five-year period. An experience report on the Systems was most recently issued for the period ending June 30, 2015.

The June 30, 2019, total pension liability (TPL), net pension liability (NPL), and sensitivity information shown in this report were determined by our consulting actuary, Gabriel, Roeder, Smith and Company (GRS) and are based on an actuarial valuation performed as of July 1, 2018. The total pension liability was rolled-forward from the valuation date to the plans' fiscal year end, June 30, 2019, using generally accepted actuarial principles.

The following table provides a summary of the actuarial assumptions and methods used to calculate the TPL as of June 30, 2019.

	SCRS	PORS
Actuarial cost method	Entry age normal	Entry age normal
Investment rate of return ¹	7.25%	7.25%
Projected salary increases	3.0% to 12.5% (varies by service) ¹	3.5% to 9.5% (varies by service) ¹
Benefit adjustments	lesser of 1% or \$500 annually	lesser of 1% or \$500 annually
¹ Includes inflation at 2.25%		

The post-retiree mortality assumption is dependent upon the member's job category and gender. The base mortality assumptions, the 2016 Public Retirees of South Carolina Mortality table (2016 PRSC), was developed using the Systems' mortality experience. These base rates are adjusted for future improvement in mortality using published Scale AA projected from the year 2016.

Assumptions used in the determination of the June 30, 2019, TPL are as follows.

Former Job Class	Males	Females
Educators	2016 PRSC Males multiplied by 92%	2016 PRSC Females multiplied by 98%
General Employees and Members of the General Assembly	2016 PRSC Males multiplied by 100%	2016 PRSC Females multiplied by 111%
Public Safety and Firefighters	2016 PRSC Males multiplied by 125%	2016 PRSC Females multiplied by 111%

Net Pension Liability

The NPL is calculated separately for each system and represents that particular system's TPL determined in accordance with GASB No. 67 less that System's fiduciary net position. NPL totals, as of June 30, 2019, for SCRS and PORS are presented below.

System	Total Pension Liability	Plan Fiduciary Net Position	Employers' Net Pension Liability (Asset)	Plan Fiduciary Net Position as a Percentage of the Total Pension Liability
SCRS	\$ 50,073,060,256	\$ 27,238,916,138	\$ 22,834,144,118	54.4%
PORS	7,681,749,768	4,815,808,554	2,865,941,214	62.7%

The TPL is calculated by the Systems' actuary, and each plan's fiduciary net position is reported in the Systems' financial statements. The NPL is disclosed in accordance with the requirements of GASB 67 in the Systems' notes to the financial statements and required supplementary information. Liability calculations performed by the Systems' actuary for the purpose of satisfying the requirements of GASB Nos. 67 and 68 are not applicable for other purposes, such as determining the plans' funding requirements.

Long-term Expected Rate of Return

The long-term expected rate of return on pension plan investments is based upon 20-year capital market assumptions. The long-term expected rates of return represent assumptions developed using an arithmetic building block approach primarily based on consensus expectations and market-based inputs. Expected returns are net of investment fees.

The expected returns, along with the expected inflation rate, form the basis for the target asset allocation adopted at the beginning of the 2019 fiscal year. The long-term expected rate of return is produced by weighting the expected future real rates of return by the target allocation percentage and adding expected inflation and is summarized in the table below. For actuarial purposes, the 7.25 percent assumed annual investment rate of return used in the calculation of the TPL includes a 5.00 percent real rate of return and a 2.25 percent inflation component.

<u>Allocation / Exposure</u>	<u>Policy Target</u>	<u>Expected Arithmetic Real Rate of Return</u>	<u>Long Term Expected Portfolio Real Rate of Return</u>
Global Equity	51.0%		
Global Public Equity ^{1,2}	35.0%	7.29%	2.55%
Private Equity ^{2,3}	9.0%	7.67%	0.69%
Equity Options Strategies ¹	7.0%	5.23%	0.37%
Real Assets	12.0%		
Real Estate (Private) ^{2,3}	8.0%	5.59%	0.45%
Real Estate (REITs) ²	1.0%	8.16%	0.08%
Infrastructure (Private) ^{2,3}	2.0%	5.03%	0.10%
Infrastructure (Public) ²	1.0%	6.12%	0.06%
Opportunistic	8.0%		
Global Tactical Asset Allocation ¹	7.0%	3.09%	0.22%
Other Opportunistic Strategies	1.0%	3.82%	0.04%
Credit	15.0%		
High Yield Bonds/ Bank Loans ^{1,2}	4.0%	3.14%	0.13%
Emerging Markets Debt	4.0%	3.31%	0.13%
Private Debt ^{2,3}	7.0%	5.49%	0.38%
Rate Sensitive	14.0%		
Core Fixed Income ¹	13.0%	1.62%	0.21%
Cash and Short Duration (Net)	1.0%	0.31%	0.00%
Total Expected Return ⁴	100.0%		5.41%
Inflation for Actuarial Purposes			2.25%
			<u>7.66%</u>

¹ Portable Alpha Strategies will be capped at 12% of total assets; Hedge funds (including all hedge funds used in portable alpha implementation) capped at 20% of total assets.

² The target weights to Private Equity, Private Debt, Private Infrastructure and Private Real Estate will be equal to their actual weights as of prior month end. Private Equity and Public Equity combine for 44 percent of entire portfolio. Private Debt and High Yield/Bank Loans combine for 11 percent of the entire portfolio. Private Infrastructure and Public Infrastructure combine for 3 percent of the entire portfolio. Private Real Estate and Real Estate (REITs) combine for 9 percent of entire portfolio.

³ RSIC staff and Consultant will notify the Commission if Private Markets assets exceed 25% of total assets.

⁴ The expected return for each of the Portable Alpha asset classes includes the expected return attributed to the Overlay Program. For benchmarking purposes there is a 10% weight assigned to Portable Alpha Hedge Funds in the Policy Benchmark.

Discount Rate

The discount rate used to measure the TPL was 7.25 percent. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers in SCRS and PORS will be made based on the actuarially determined rates based on provisions in the South Carolina Code of Laws. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the 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 TPL.

Sensitivity Analysis

The following table presents the collective NPL of the participating employers calculated using the discount rate of 7.25 percent, as well as what the employers' NPL would be if it were calculated using a discount rate that is 1.00 percent lower (6.25 percent) or 1.00 percent higher (8.25 percent) than the current rate.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate			
System	1.00% Decrease (6.25%)	Current Discount Rate (7.25%)	1.00% Increase (8.25%)
SCRS	\$ 28,766,243,289	\$ 22,834,144,118	\$ 17,883,463,631
PORS	3,884,029,879	2,865,941,214	2,031,869,450

Additional Financial and Actuarial Information

Information contained in these Notes to the Schedules of Employer and Nonemployer Allocations and Schedules of Pension Amounts by Employer (Schedules) was compiled from the Systems' audited financial statements for the fiscal year ended June 30, 2019, and the accounting valuation report as of June 30, 2019. Additional financial information supporting the preparation of the Schedules (including the unmodified audit opinion on the financial statements and required supplementary information) is available in the Systems' CAFR.