

Re: Actuarial Information for Employer Accounting and Financial Reporting under GASB Statement 75

Prepared for the Employer: **Huntingdon Sp Sch**

Gabriel, Roeder, Smith & Company (GRS) has been engaged by the State of Tennessee to perform an Actuarial Valuation of Other Post-Employment Benefits (OPEB) provided through the State's group insurance plans. While we do not have a contract with your organization, we are providing this report at the request of our Client-Principal, the State of Tennessee. We are pleased to present herein the results of the valuation of benefits provided to retirees of Huntingdon Sp Sch covered under the Local Education Insurance Plan which you as Employer offer to retiring employees of your organization.

This report provides actuarial information in accordance with Governmental Accounting Standards Board (GASB) Statement No. 75, "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions." This information is intended to assist in preparation of the financial statements of the Employer in relation to benefits provided through the Local Education Insurance Plan. This report does not address liabilities for benefits provided through The Tennessee Plan, supplemental medical insurance for retirees with Medicare. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

This report was prepared at the request of the State and is intended for use by the Employer and those designated or approved by them. This report may be provided to parties other than the Employer in its entirety and only with the permission of the Employer or the State. GRS is not responsible for unauthorized use of this report.

Our actuarial calculations for this report were prepared for the purpose of complying with the requirements of GASB Statement No. 75. These calculations have been made on a basis that is consistent with our understanding of this Statement. The calculation of the plan's liability for this report is not applicable for the purpose of pre-funding the OPEB plan. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement No. 75 may produce significantly different results.

This report is based upon information through June 30, 2018 furnished to us by the State officials for the June 30, 2018 actuarial valuation. This information, including plan provisions and census data for active members, retirees and beneficiaries, was reviewed for internal consistency, but it was not audited by us. We are not responsible for the accuracy or completeness of the information provided by the State.

The calculations are based upon the actuarial valuation as of June 30, 2018 with results presented in a report dated September 27, 2019 on file with the State of Tennessee. As such they depend on assumptions regarding future events, which may or may not materialize. They are also based upon plan provisions outlined in the June 30, 2018 actuarial valuation report. If you have reason to believe that the assumptions that were used are unreasonable, that the plan provisions are incorrectly described, that important relevant plan provisions are not described or referenced, or that conditions have changed since the calculations were made, you should contact the author of this report prior to relying on information in this report.

This report complements the June 30, 2018 actuarial valuation report dated September 27, 2019, and information herein should be considered along with the information from that report, especially for additional discussions of the nature of actuarial calculations and for more information related to participant data, economic, demographic, health care trend and morbidity assumptions, and benefit provisions. Refer to that full actuarial report for disclosures of OPEB plan provisions and detailed actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law. The scope of this report does not include an analysis of the potential range of such future measurements.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge, the information contained in this report is accurate and fairly represents the actuarial position of the plan as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice, and with applicable statutes. If you have reason to believe that the information provided in this report is inaccurate, or is in any way incomplete, or if you need further information in order to make an informed decision on the subject matter of this report, please contact the author of this report prior to making such decision.

Results presented within this report are not applicable if benefits are prefunded through a qualifying trust maintained by the employer. No information was provided to the actuary regarding component units of the employer, the employer will be responsible for allocation the results if necessary.

James J. Rizzo and Piotr Krekora are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

The signing actuaries are independent of the plan sponsor.

We will be pleased to answer any questions pertaining to this report.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY



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Piotr Krekora, ASA, EA, MAAA, FCA
Consultant & Actuary

Executive Summary

Actuarial Valuation Date	June 30, 2018
Measurement Date of the Total OPEB Liability	June 30, 2018
Employer's Fiscal Year Ending Date (Reporting Date)	June 30, 2019

Membership as of the Actuarial Valuation Date

Number of	
- Retirees and Beneficiaries	11
- Inactive, Nonretired Members	0
- Active Members Eligible for Future Benefits	121
- Active Members Not Eligible for Future Benefits*	6
- Total*	138
Estimated Covered-Employee Payroll	N/A

**Note: Non-grandfathered employees who retire after attaining eligibility for Medicare benefits will not be eligible for coverage through the Local Education Employee Group Plan.*

Total OPEB Liability

Collective Total OPEB Liability	\$ 1,204,409
Employer's Share of the Total OPEB Liability	\$ 771,104
Employer's Share as a Percentage of Covered-Employee Payroll	N/A

Total OPEB Expense \$ 93,663

State's Share of the OPEB Expense (Revenue) \$ 32,913

Employer's Share of the OPEB Expense (Revenue) \$ 60,750

Development of the Single Discount Rate

Long-Term Municipal Bond Rate**	3.62 %
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***Source: Fidelity General Obligation AA rate as of June 29, 2018. This is the rate for Fixed Income Yield Curve Data for Municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Fidelity's "20-Year Municipal GO AA Index." In describing this index, Fidelity notes that the municipal curves are constructed using option adjusted analytics of a diverse population of over 10,000 tax exempt securities.*

Summary of Cumulative Deferred Outflows and Deferred Inflows of Resources by Source

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference between expected and actual experience	\$ 0	\$ 267,879
Changes in assumptions and other inputs	27,991	53,366
Benefits Paid After the Measurement Date by Employer	101,567	0
Total	\$ 129,558	\$ 321,245

Summary of Employer's Deferred Outflows and Deferred Inflows of Resources by Source

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference between expected and actual experience	\$ 0	\$ 171,505
Changes in assumptions and other inputs	17,921	34,167
Changes in proportions	8,001	0
Benefits Paid After the Measurement Date by Employer	65,019	0
Total	\$ 90,941	\$ 205,672

Schedule of Changes in Total OPEB Liability and Related Ratios

Measurement Year Ended June 30, 2018

(Ultimately 10 Years Will Be Displayed)

Measurement Year Ended June 30,

	2018	2017
A. Collective Total OPEB Liability		
1. Service Cost	\$ 70,641	\$ 77,069
2. Interest on the Total OPEB Liability	52,471	44,904
3. Changes of benefit terms	0	0
4. Difference between expected and actual experience of the Total OPEB Liability	(294,142)	0
5. Changes in assumptions and other inputs	30,735	(65,226)
6. Benefit payments	(117,129)	(111,283)
7. Net change in Total OPEB Liability	\$ (257,424)	\$ (54,536)
8. Total OPEB Liability – Beginning	1,461,833	1,516,369
9. Total OPEB Liability – Ending	\$ 1,204,409	\$ 1,461,833
B. Proportion Determination		
1. Employer's Actuarial Accrued Liability	771,104	925,254
2. Collective Actuarial Accrued Liability	1,204,409	1,461,833
3. Employer's Proportion	0.640234	0.632941
3. State's Proportion	0.359766	0.367059
4. Employer's Share of the Total OPEB Liability – Beginning	925,254	959,772
5. Employer's Share of the Total OPEB Liability – Ending	771,104	925,254
B. Estimated Covered-Employee Payroll	N/A	N/A
C. Employer's Total OPEB Liability as a Percentage of Covered-Employee Payroll	N/A	N/A
Change in Proportion in TOL	10,661	
Change in Proportion in Prior Period Net Deferred Outflows	432	
Difference Between Benefits Paid by Employer and Employer's Share of Collective Benefits Paid	(2,308)	
Total Outflow(Inflow) due to change in proportion and the Difference Between Benefit Paid and Share of Total Benefit	8,785	
Amount Recognized in the Current Period	784	
Amount Deferred	8,001	

Notes to Schedule of Changes in Total OPEB Liability and Related Ratios

Valuation Date: June 30, 2018
Measurement Date: June 30, 2018

Methods and Assumptions Used to Determine Total OPEB Liability:

Actuarial Cost Method	Entry Age Normal.
Inflation	2.25%
Discount Rate	3.62%
Salary Increases	Salary increase rates used in the July 1, 2018 actuarial valuation of the Tennessee Consolidated Retirement System (TCRS); 3.44% - 8.72%, including inflation.
Retirement Age	Retirement rates used in the July 1, 2018 actuarial valuation of the Tennessee Consolidated Retirement System (TCRS). They are based on the results of a statewide experience study (undertaken on behalf of TCRS).
Mortality	Mortality tables used in the July 1, 2018 actuarial valuation of the Tennessee Consolidated Retirement System (TCRS). They are based on the results of a statewide experience study (undertaken on behalf of TCRS).
Healthcare Cost Trend Rates	Based on the Getzen Model, with trend starting at 6.75% for 2019 calendar year, and gradually decreasing 32-year period to an ultimate trend rate of 3.53% with 0.32% added to approximate the effect of the excise tax.
Aging factors	Based on the 2013 SOA Study "Health Care Costs - From Birth to Death".
Expenses	Administrative expenses are included in the per capita health costs.

Other Information:

Notes See the Actuarial Valuation Report as of July 1, 2018.

Following changes in assumptions and other inputs were made:

- The discount rate was changed from 3.56% as of the beginning of the measurement period to 3.62% as of June 30, 2018.
- The assumed initial costs and premium amounts were revised to reflect rates adopted for the 2019 plan year.
- The assumed initial trend rate applicable to 2019 plan year was revised from 5.40% to 6.75%.

These changes are reflected in the Schedule of Changes in Total OPEB Liability.

There were no benefit changes during the measurement period.

Statement of OPEB Expense
Employer Fiscal Year Ended June 30, 2019
(Based on Measurement Year Ended June 30, 2018)

OPEB Expense

1. Service Cost	\$	70,641
2. Interest on the Total OPEB Liability		52,471
3. Current-Period Benefit Changes		0
4. OPEB Plan Administrative Expense		0
5. Recognition of Outflow/(Inflow) of Resources due to Liabilities		(29,449)
6. Total OPEB Expense	\$	93,663

Recognition of Deferred Outflows and Inflows of Resources

Differences between expected and actual experience and changes in assumptions are recognized in OPEB 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 OPEB through the OPEB plan (active employees and inactive employees) determined as of the beginning of the measurement period.

At the beginning of the current measurement period, the average of the expected remaining service lives for purposes of recognizing the applicable combined deferred outflows and inflows of resources established in the current measurement period is 11.2 years.

Recognition of Outflow/(Inflow) of Resources due to Change in Proportion	\$	784
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State Support

1. Total OPEB Expense	\$	93,663
2. State's Share of the OPEB Expense		32,913
3. Employer's Share of the OPEB Expense		60,750

**Statement of Remaining Deferred Outflows and
Inflows of Resources
Employer Fiscal Year Ended June 30, 2019
(Based on Measurement Year Ended June 30, 2018)**

A. Outflows and Inflows of Resources by Source to be Recognized in Current OPEB Expense

	Outflows of Resources	Inflows of Resources	Net Outflows of Resources
1. Differences between expected and actual experience	\$ 0	\$ 26,263	\$ (26,263)
2. Changes in assumptions and other inputs	2,744	5,930	(3,186)
3. Total	\$ 2,744	\$ 32,193	\$ (29,449)

B. Average of the Expected Remaining Service Lives

11.2

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

	Deferred Outflows of Resources	Deferred Inflows of Resources	Net Deferred Outflows of Resources
1. Differences between expected and actual experience	\$ 0	\$ 267,879	\$ (267,879)
2. Changes in assumptions and other inputs	27,991	53,366	(25,375)
3. Total	\$ 27,991	\$ 321,245	\$ (293,254)

D. Deferred Outflows and Deferred Inflows of Resources by Year to be Recognized in Future OPEB Expenses

Year Ending June 30	Collective Net Deferred Outflows of Resources	Employer Net Deferred Outflows of Resources
2020	\$ (29,449)	\$ (18,070)
2021	(29,449)	(18,070)
2022	(29,449)	(18,070)
2023	(29,449)	(18,070)
2024	(29,449)	(18,070)
Thereafter	(146,009)	(89,399)
Total	\$ (293,254)	\$ (179,749)

E. Estimated Outflow of Resources due to Contributions/Benefits Paid After the Measurement Date

Employer	65,019
State	36,548
Total	101,567

Sensitivity of Total OPEB Liability and Other Relevant Information

Sensitivity of Total OPEB Liability (Employer's Share) to the Discount Rate Assumption

Regarding the sensitivity of the total OPEB liability to changes in the discount rate, the following presents the plan's total OPEB liability, calculated using a discount rate of 3.62%, as well as what the plan's total OPEB liability would be if it were calculated using a discount rate that is one percent lower or one percent higher:

1% Decrease	Current Discount Rate Assumption	1% Increase
2.62%	3.62%	4.62%
\$ 822,629	\$ 771,104	\$ 721,741

Sensitivity of Total OPEB Liability (Employer's Share) to the Assumed Trend Rates

Regarding the sensitivity of the total OPEB liability to changes in the healthcare cost trend rates, the following presents the plan's total OPEB liability, calculated using the assumed trend rates as well as what the plan's total OPEB liability would be if it were calculated using a trend rate that is one percent lower or one percent higher:

1% Decrease	Current Healthcare Cost Trend Rate Assumption	1% Increase
(5.75% to 2.85%)	(6.75% to 3.85%)	(7.75% to 4.85%)
\$ 689,493	\$ 771,104	\$ 868,078

Discount Rate

For plans that do not have formal assets, the discount rate should equal the tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date. For the purpose of this actuarial roll-forward, the municipal bond rate is 3.62% (based on the daily rate of Fidelity's "20-Year Municipal GO AA Index" closest to but not later than the measurement date). The discount rate was 3.56% as of the beginning of the measurement year.

Plan Assets

There are no plan assets accumulated in a trust that meets the criteria in paragraph 4 of GASB Statement No. 75.

Summary of Outstanding Collective Outflows/(Inflows)

<u>Date Established</u>	<u>Source</u>	<u>Recognition Period (years)</u>	<u>Original Amount</u>	<u>Years Remaining</u>	<u>Amount Unrecognized Beg. of Period</u>	<u>Amount Recognized in Current Expense</u>	<u>Amount Deferred to Future Periods</u>
Deferred Outflows of Resources							
6/30/2019	Assumption Changes	11.2	\$ 30,735	11.2	\$ 30,735	\$ 2,744	\$ 27,991
6/30/2019	Liability Experience	N/A	-	N/A	-	-	-
	SUBTOTAL:		30,735		30,735	2,744	27,991
Deferred Inflows of Resources							
6/30/2018	Assumption Changes	11.0	\$ 65,226	10.0	\$ 59,296	\$ 5,930	\$ 53,366
6/30/2019	Liability Experience	11.2	294,142	11.2	294,142	26,263	267,879
	SUBTOTAL:		359,368		353,438	32,193	321,245
	GRAND TOTAL:		(328,633)		(322,703)	(29,449)	(293,254)

Summary of Employer's Outstanding Outflows/(Inflows)

<u>Date Established</u>	<u>Source</u>	<u>Recognition Period (years)</u>	<u>Original Amount</u>	<u>Years Remaining</u>	<u>Amount Unrecognized Beg. of Period</u>	<u>Amount Recognized in Current Expense</u>	<u>Amount Deferred to Future Periods</u>
Deferred Outflows of Resources							
6/30/2019	Change in Proportion	11.2	\$ 8,785	11.2	\$ 8,785	\$ 784	\$ 8,001
6/30/2019	Assumption Changes	11.2	19,678	11.2	19,678	1,757	17,921
6/30/2019	Liability Experience	N/A	-	N/A	-	-	-
	SUBTOTAL:		28,463		28,463	2,541	25,922
Deferred Inflows of Resources							
6/30/2018	Assumption Changes	11.0	\$ 41,760	10.0	\$ 37,963	\$ 3,797	\$ 34,167
6/30/2019	Change in Proportion	N/A	-	N/A	-	-	-
6/30/2019	Assumption Changes	N/A	-	N/A	-	-	-
6/30/2019	Liability Experience	11.2	188,320	11.2	188,320	16,814	171,505
	SUBTOTAL:		230,080		226,283	20,611	205,672
	GRAND TOTAL:		(201,617)		(197,820)	(18,070)	(179,750)