## Deloitte.



# **Commonwealth of Pennsylvania Retired Employees Health Program**

GASB Statement Nos. 74 and 75 Valuation Report

Measurement date of June 30, 2019

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## **Actuarial Valuation Opinion**

This report presents results of the actuarial valuation of the Commonwealth of Pennsylvania's Retired Employees Health Program ("the Plan" or "REHP") measured as of June 30, 2019. In this report, we present disclosure information measured as of June 30, 2019 as required by Government Accounting Standards Board Statement Nos. 74 and 75 (GASB Nos. 74 and 75). In our opinion, this report is complete and accurate and represents fairly the actuarial position of the Plan for the purposes stated herein.

Actuarial information under GASB Nos. 74 and 75 is for purposes of fulfilling trust and employer financial accounting requirements. The results have been prepared on a basis consistent with our understanding of GASB Nos. 74 and 75 and are based upon assumptions prescribed by the Commonwealth of Pennsylvania. Determinations for purposes other than meeting employer financial accounting requirements may be significantly different from the results reported herein.

The Commonwealth of Pennsylvania provided the participant data, financial information, and plan descriptions used in this valuation. The actuary has analyzed the data and other information provided for reasonableness but has not independently audited the data or other information provided. The actuary has no reason to believe the data or other information provided is not complete and accurate and knows of no further information that is essential to the preparation of the actuarial valuation.

In our opinion, all costs, liabilities, rates of interest, and other factors underlying these actuarial computations have been determined on the basis of actuarial assumptions and methods that are each reasonable (or consistent with authoritative guidance) for the purposes herein taking into account the experience of the Plan and future expectations.

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 operations of the methodology used for these measurements (such as the additional cost or contribution requirements based on the Plan's funded status); and changes in program provisions or applicable law. Our scope for this actuarial valuation did not include analyzing the potential range of such future measurements, and we did not perform that analysis.

The undersigned with actuarial credentials collectively meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

This report was prepared solely for the benefit and internal use of the plan sponsor. This report is not intended for the benefit of any other party and may not be relied upon by any third party for any purpose, and Deloitte Consulting accepts no responsibility or liability with respect to any party other than the plan sponsor.

To the best of our knowledge, no employee of the Deloitte U.S. Firms is an officer or director of the employer. In addition, we are not aware of any relationship between the Deloitte U.S. Firms and the employer that may impair or appear to impair the objectivity of the work detailed in this report.

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## **Executive Summary**

#### **Governmental Accounting Requirements and Report Purpose**

The Governmental Accounting Standards Board released the Statement of Governmental Accounting Standards Nos. 74 and 75 in June 2015. GASB No. 74 establishes financial reporting requirements for OPEB plans that have assets accumulated in a trust or equivalent arrangement for the purpose of funding OPEB. GASB No. 75 details the reporting and disclosure requirements for employers with payables (OPEB liabilities) to employees of state and local governmental employers through defined benefit OPEB plans that are administered through trusts or equivalent arrangements. The Commonwealth of Pennsylvania adopted GASB No. 74 in the fiscal year ended June 30, 2017 and GASB No. 75 in the fiscal year ended June 30, 2018.

The purpose of this actuarial valuation report is to provide information for the Commonwealth's trust and employer financial reporting. The information provided herein will be used for the fiscal year ended June 30, 2019 GASB No. 74 disclosures and fiscal year ending June 30, 2020 GASB No. 75 disclosures (the Commonwealth has elected to use a measurement date as of the end of the prior fiscal year end for GASB No. 75).

#### **Summary of Results**

The key results for the measurement period ended June 30, 2019 are:

- Net OPEB Liability (NOL) is \$10.4 billion, 260.8% of covered employee payroll.
- Plan Fiduciary Net Position (FNP) as a percentage of Total OPEB Liability (TOL) is 3.8%.
- OPEB Expense/(Income) is \$(1.3) billion.

#### Significant Changes from the Previous Actuarial Valuation

For the June 30, 2019 measurement, the liabilities were lower than the previous valuation. In total, there was a decrease in TOL of \$4.2 billion compared to the previous valuation, with the decrease primarily due to the following:

- There was an expected \$0.5 billion increase in TOL due to the passage of time (service cost, interest, benefit payments, retiree contributions);
- There was a \$0.4 billion increase in TOL due to changes in actuarial assumptions, driven primarily by the decrease in discount rate from 3.87% to 3.50%;
- The actual experience over the past year was different than expected, resulting in a \$5.1 billion decrease in TOL. This experience gain was caused primarily by a significant decrease in per capita claims costs. The claims cost decrease was driven by rebidding the medical plans for Medicare participants, including moving all into an MA-PPO plan, and rebidding the prescription drug plans for both Medicare and non-Medicare participants. The rebidding process included medical rate guarantees and pharmacy rebate guarantees for 2020 through 2022.

## **Background and Comments**

#### **Overview of Plan**

The Commonwealth sponsors the Retired Employees Health Program (REHP) for eligible retirees and their dependents to receive subsidized health coverage for the retiree's lifetime.

#### **Funding Policy**

The Commonwealth created the OPEB Investment Pool, a Trust Equivalent Arrangement, during the fiscal year ended June 30, 2008. The Commonwealth plans to contribute \$50 million annually until assets cover the present value of future benefits, subject to annual evaluation.

During the fiscal year ended June 30, 2019, employing agencies and certain plan members contributed \$300 per biweekly pay period for each current REHP eligible active employee during fiscal year ended June 30, 2019 to the REHP Trust. Certain employing agencies contribute under a separate payment arrangement. Employer contributions made to the REHP Trust, a Trust Equivalent Arrangement, are irrevocable. Plan assets are restricted for use for the provision and administration of REHP retirees' health benefits. Employers maintain no rights of ownership to the assets and the trust.

#### **Health Care Reform**

The Patient Protection and Affordable Care Act ("PPACA") was signed into law on March 23, 2010. The primary objective of the act is to increase the number of Americans with health insurance coverage. There are several provisions within PPACA with potentially significant short- and long-term cost implications for employers. The applicable provisions of PPACA were first accounted for in the July 1, 2010 valuation. On December 18, 2015, the Consolidated Appropriations Act, 2016 became law. This legislation delayed the effective date of the high cost plan excise tax from 2018 to 2020 and made it tax deductible. On January 22, 2018, the Federal Register Printing Savings Act further delayed the effective date from 2020 to 2022. In future years, there may continue to be increased cost impact to the extent the health & welfare program experiences increased utilization due to these changes, all of which are assumed to be in place indefinitely.

The provisions of PPACA considered are as follows:

- Prohibiting lifetime and annual limits on the dollar value of coverage for "essential health benefits"
- Increasing the dependent child age limit to age 26
- Elimination of cost sharing for in-network preventive services
- Reflecting manufacturer discounts available to certain Medicare beneficiaries receiving applicable covered Part D drugs (mostly brand) while in the coverage gap
- Out-of-pocket limit includes both medical and Rx expenses
- Excise tax on "Cadillac Plans" effective in 2022

The impact of applicable provisions except for excise tax, which was valued separately, were incorporated in the per capita claims costs summarized in the Actuarial Assumptions section of this report.

#### **Actuarial Methods and Assumptions**

The Commonwealth of Pennsylvania State Employees' Retirement System (SERS) performs experience studies periodically to determine reasonable and appropriate economic and demographic assumptions for purposes of valuing the defined benefit pension plan. The most recent SERS experience study covered the years 2011 through 2015 and was presented to the State Employees' Retirement Board in March 2016. The approved recommendations from that study were used to determine the assumptions for this valuation, where applicable. The inflation assumption was selected by the SERS Board during an April of 2017 meeting based on a review of actual plan experience and the prevalent economic outlook. Consistent with prior valuations, these demographic assumptions assume beginning of year decrements (retirement, withdrawal, death, disability, etc.). In addition, Deloitte periodically reviews actuarial assumptions only applicable to the postemployment medical plan outside of the experience study, such as medical trend rates and age-graded medical rates.

One significant assumption where the recommendation of the experience study is not applicable to this retiree health benefit valuation is the discount rate. Since REHP has insufficient assets to meet next year's projected benefit payments, as prescribed by GASB Nos. 74 and 75, the discount rate will be based on the index rate for 20-year tax-exempt general obligation municipal bond index rate with an average rating of AA/Aa or higher as of the measurement date. The Commonwealth elected to determine the discount rate using the Bond Buyer 20-Bond General Obligation Index. The discount rate is 3.50% as of June 30, 2019 (3.87% as of June 30, 2018).

The treatment of Medicare Part D in this report is consistent with our understanding of the GASB technical bulletin 2006-1 issued in June 2006, which states that Medicare Part D subsidy payments should not be reflected under GASB No. 75.

The actuarial methods and assumptions are described in the Basis of the Valuation section of this report.

## Summary of Actuarial Valuation

This section provides a summary of the actuarial valuation results for REHP in total. All information is provided as of the measurement date except for the census data. The valuation results as of the June 30, 2018 measurement date were based on December 31, 2017 census data, and valuation results as of the June 30, 2019 measurement date were based on December 31, 2018 census data. All liabilities are net of expected retiree contributions.

Measurement Date	Ju	ne 30, 2019	June 30, 2018		
Total OPEB Liability	\$	10,821,333	\$	15,015,975	
Plan Fiduciary Net Position	\$	407,480	\$	333,848	
Net OPEB Liability	\$	10,413,853	\$	14,682,127	
Plan Fiduciary Net Position As A Percentage Of Total OPEB Liability		3.8%		2.2%	
Net OPEB Liability As A Percentage Of Covered Employee Payroll		260.8%		375.4%	
Discount Rate		3.50%		3.87%	
Participant Counts					
Active Participants		69,477		70,374	
Retired Participants*		64,516		64,308	
Total		133,993		134,682	
Covered Employee Payroll	\$	3,992,729	\$	3,911,464	

<sup>\*</sup> Retired participants include retirees, disabled participants, and surviving family members.

## GASB Nos. 74 and 75 Disclosures

GASB Nos. 74 and 75 requires disclosure of notes to the financial statements and required supplementary information that includes information shown in this section. The valuation results as of the June 30, 2018 measurement date were based on December 31, 2017 census data and employer contributions for the fiscal year ended June 30, 2018. The valuation results as of the June 30, 2019 measurement date were based on December 31, 2018 census data and employer contributions for the fiscal year ended June 30, 2019.

For reporting purposes, the associated liabilities, expenses and other disclosure items are reported for different covered populations:

- Most primary government agencies and component units contribute at the retiree health assessment rate.
- One primary government agency and three component units participate under separate contribution
  arrangements. The agency and the component units contribute the actual fiscal year benefit payments
  attributable to their respective retirees.
  - 1. Health Care Cost Containment (FT = 001; BA = 43)
  - 2. PHEAA (FT = 079; BA = AA)
  - 3. Philadelphia Regional Port Authority (FT = 140; BA = 88)
  - 4. Port of Pittsburgh Commission (FT = 141; BA = 88)
- The primary results are presented for REHP in total.

## **Schedule of Changes in Net OPEB Liability**

Total OPEB Liability (a)  \$ 15,015,975	\$ \$	n Fiduciary Net Position (b) 333,848  (550,144) 558,876	\$	OPEB Liability (a)-(b)  14,682,127
(a)  \$ 15,015,975	\$	(b) 333,848 (550,144)		(a)-(b) 14,682,127 398,501 586,939 - 457,646 (54,218)
\$ 15,015,975 398,501 586,939 - 457,646 (54,218) (5,082,545)	\$	333,848 (550,144)	\$	14,682,127 398,501 586,939 - 457,646 (54,218)
398,501 586,939 - 457,646 (54,218) (5,082,545)	•	(550,144)	•	398,501 586,939 - 457,646 (54,218)
586,939 - 457,646 (54,218) (5,082,545) (550,144)				586,939 - 457,646 (54,218)
457,646 (54,218) (5,082,545) (550,144)				- 457,646 (54,218
(54,218) (5,082,545) (550,144)				(54,218)
(54,218) (5,082,545) (550,144)				(54,218)
(5,082,545) (550,144)				
(550,144)				(5,082,545
				-
49,179		330,070		(558,876)
49,179		_		(330,070)
45,175		49,179		_
		•		
		(5,562)		5,562
		21,283		(21,283)
				(4,268,274)
\$ 10,821,333	<b>&gt;</b>	407,480	\$	10,413,853
	J	une 30, 2019	Ju	ine 30, 2018
		3.8%		2.2%
		\$3,992,729	\$	3,911,464
		260.8%		375.4%
		\$ Change		% Change
n Total OPEB Liabili	ty as c			70 Change
	\$	(1,172,886)		-11%
	\$	1,401,207		13%
, 2019 is as follows	:			OPEB Liability
				9,240,967
			<b>\$</b>	11,815,060
		\$ Change		% Change
otal OPEB Liability a	as of Ju			
	\$	1,682,102		16%
	\$	(1,367,500)		-13%
119 is as follows:				OPEB Liability
			\$ \$	12,095,955 9,046,353
			4	3,0 10,333
	J	une 30, 2019	Ju	ine 30, 2018
		3.50%		3.87%
				5.00%
		5.00%		
		5.00% 2.60%		2.60%
		5.00%	6	2.60% 5.2% / 5.9% 4.1%
	\$ 10,821,333	n Total OPEB Liability as of \$ \$ total OPEB Liability as of Ju  potal OPEB Liability as of Ju  \$ \$	\$ (4,194,642) \$ 73,632 \$ 10,821,333 \$ 407,480	\$ (4,194,642) \$ 73,632 \$ \$ 10,821,333 \$ 407,480 \$ \$

## Development of OPEB Expense for Fiscal Year Ending June 30, 2020 (Measurement Year June 30, 2019)

	Meas	Measurement Year		
Components of OPEB Expense	Ende	Ended 06/30/2018		
Service Cost	\$	398.501	\$	527,110
Interest	•	586,939	·	736,947
Expected Investment Earnings		(17,985)		(14,716)
Contributions - Employee		-		-
Administrative Expenses		5,562		5,232
Changes In Benefit Terms		-		-
Recognition of Current Period Deferred Outflows and (Inflows)				
Changes in assumptions		70,284		(100,497)
Differences between expected and actual experience		(885,461)		(948,693)
Differences between expected and actual investment earnings		(659)		(2,527)
Recognition of Beginning Deferred Outflows		-		-
Recognition of Beginning Deferred Inflows		(1,443,046)		(391,330)
OPEB Expense	\$	(1,285,865)	\$	(188,474)

	Measurement Year	Measurement Year
Assumptions Used to Determine OPEB Expense	Ended 06/30/2019	Ended 06/30/2018
Assumptions as of Measurement Date*	6/30/2018	6/30/2017
Discount Rate	3.87%	3.58%
Investment Rate of Return	5.00%	5.00%
Inflation	2.60%	2.60%
Initial Medical Trend Rate	6.2% / 5.9%	6.0%
Ultimate Medical Trend Rate	4.1%	3.9%
Year Ultimate Trend Rate Reached	2075	2075

<sup>\*</sup> Per Q&A 4.114 and 4.115 of GASB Implementation Guide No. 2017-3, Service Cost and Interest are determined "based on the results of the actuarial valuation that determined the beginning net OPEB liability".

#### **Schedule of Deferred Outflows and Deferred Inflows of Resources**

Measurement Date Established	ln	itial Amount	of Re		of R	erred (Inflows) esources as of 5/30/2019**	Initial Years	Remaining Years	Rea:	flows/(Inflows) ecognized in surement Year ed 06/30/2019
Changes In Assumptions										
06/30/2017 06/30/2018 06/30/2019	\$	(2,228,187) (576,855) 403,428	\$	- - 333,144	\$	(1,066,540) (375,861)	3.08 - 8.54 5.74 5.74	2.08 - 5.54 3.74 4.74	\$	(387,215) (100,497) 70,284
Tota	I	403,420	\$	333,144	\$	(1,442,401)	5.74	4.74	\$	(417,428)
Differences Between Expected	d And	Actual Plan Expe	ience							
06/30/2017	\$	-	\$	_	\$	_	0.00	0.00	\$	_
06/30/2018	4	(5,445,495)	Ψ	_	Ψ	(3,548,109)	5.74	3.74	4	(948,693)
06/30/2019		(5,082,545)		_		(4,197,084)	5.74	4.74		(885,461)
00/30/2019 Tota		(3,062,343)	\$		\$	(7,745,193)	5.74	4.74	\$	
1014	ı		Þ	-	Þ	(7,745,193)			Þ	(1,834,154)
Net Difference Between Projec	cted A	nd Actual Earnin	gs On	Investments						
06/30/2017	\$	(20,568)	\$	-	\$	(8,226)	5.00	2.00	\$	(4,114)
06/30/2018		(12,635)		-		(7,581)	5.00	3.00		(2,527)
06/30/2019		(3,298)		-		(2,639)	5.00	4.00		(659)
Tota	I		\$	-	\$	(18,446)			\$	(7,300)
Contributions subsequent to r	neasu	rement date*	To be	determined b	ov eac	h participating en	nplover.			
Balance as of 06/30/2019 Me	asure	ment Date	\$	333,144	\$	(9,206,040)			\$	(2,258,882)
* Reflects employer contributi	ons m	ade subsequent	to 06/	30/2019. This	will be	e recognized as a	reduction in Net (	OPEB Liability next ve	ar.	
Deferred Outflows And Defe	rred (	(Inflows) Of Res	ource	s Will Be Reco	gnize	d In Expense As	Follows:			
Measurement Yea	r Endi	ng:							Outi	flows/(Inflows)
06/30/2020		-							\$	(2,258,866)
06/30/2021										(2,258,864)
06/30/2022										(2,144,076
06/30/2023										(1,598,405
06/30/2024										(609,373)
Thereafter										(3,312

<sup>\*\*</sup> Deferred (Inflows) should be disclosed as positive numbers in the CAFR.

### **10-Year Schedule of Net OPEB Liability**

		•		Dian Fiduciano Nat		
Measurement Year Ended	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (c)	Plan Fiduciary Net Position As A Percentage Of Total OPEB Liability (d)	Covered Employee Payroll (e)	Net OPEB Liability As A Percentage Of Covered Employee Payroll (f)
			(a)-(b)	(b)/(a)		(c)/(e)
June 30, 2016	\$21,910,888	\$200,596	\$21,710,292	0.9%	N/A	N/A
June 30, 2017	\$20,336,764	\$282,429	\$20,054,335	1.4%	\$3,902,336	513.9%
June 30, 2018	\$15,015,975	\$333,848	\$14,682,127	2.2%	\$3,911,464	375.4%
June 30, 2019	\$10,821,333	\$407,480	\$10,413,853	3.8%	\$3,992,729	260.8%

## Participating Employers Results

The REHP is a single-employer defined-benefit OPEB Plan that is established and sponsored by the Commonwealth. In addition to the Commonwealth agencies, there are several component units that have elected to participate in the REHP. Both GASB 74 and GASB 75 consider a primary government and its component units to be one employer. Hence, if a defined-benefit OPEB plan is used to provide OPEB to the employees of only one employer, the OPEB plan should be classified for financial reporting as a single-employer defined benefit OPEB plan. GASB 75, paragraph 24 requires the Commonwealth as the financial reporting entity to follow the single-employer reporting and disclosure requirements identified in GASB 75, paragraphs 47-58. Further, GASB 75, paragraph 24 requires the component units to follow the cost-sharing employer reporting and disclosure requirements identified in GASB 75, paragraphs 59-98. To satisfy the component unit reporting requirements, a proportionate share was determined for each Commonwealth agency and component unit. For the entities that contribute at the same employer health assessment rate, the proportionate share is based on current year contractually required contributions. For the one Commonwealth agency and three component units that participated under contribution terms unique to their agencies, the proportionate share is based on their subset demographics' Total OPEB Liability.

## Basis for the Valuation

### **Plan Participation Summary**

The participant data used in the valuation was provided by the Commonwealth as of December 31, 2018. While the participant data was checked for reasonableness, the data was not audited, and the valuation results presented in this report are dependent upon the accuracy of the participant data provided. The section presents a summary of the basic participant information for the active and retired participants covered under the terms of the Plan.

a.	Active Participants		
	Total Counts	69,477	
	Average Age	47.11	
	Average Service	12.85	
b.	Retired Participants Counts	Employees*	Spouses
	Under Age 65 Non-Medicare	13,182	11,266
	Under Age 65 Medicare	3,373	1,632
	Over age 65 Non-Medicare	. 33	137
	Over age 65 Medicare	47,928	21,126
	Total Counts	64,516	34,161
	Average Age	71.12	
c.	Total Participants**	133,993	
d.	Inactive Participants Entitled To But Not Yet Receiving Benefits***	16,948	
	THE TEL MECCIVING DETICIES	10,540	

<sup>\*</sup> Employees include retirees and 2,693 surviving spouses with minimal liability

<sup>\*\*</sup> Total participant count excludes dependent spouses

<sup>\*\*\*</sup> These retirees who currently elect to waive coverage are assumed to remain uncovered in the future; therefore, they are excluded from the valuation.

## Plan Participation Summary (cont.)

Distribution of Service Groups by Age Groups									
Age Group	Retired Participants	Active Participants - Years of Service							
		0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30+	Total
<20	-	8	-	-	-	-	-	-	8
20-24	-	858	22	-	-	-	-	-	880
25-29	-	3,802	929	31	-	-	-	-	4,762
30-34	21	3,132	2,570	1,081	43	-	-	-	6,826
35-39	80	2,269	1,964	2,734	915	49	-	-	7,931
40-44	130	1,770	1,513	2,190	2,010	706	48	-	8,237
45-49	457	1,673	1,436	2,123	2,091	1,902	1,094	60	10,379
50-54	1,704	1,472	1,471	1,879	1,857	1,527	1,629	909	10,744
55-59	4,192	1,281	1,333	1,896	1,853	1,378	1,350	1,610	10,701
60-64	9,971	711	1,031	1,416	1,422	689	537	647	6,453
65-69	14,791	142	347	492	466	225	115	201	1,988
70-74	13,401	24	59	101	124	48	33	59	448
75-79	8,280	-	5	21	19	18	9	22	94
80-84	5,232	1	1	5	5	2	2	4	20
85-89	3,650	-	-	2	-	-	-	4	6
90+	2,607	-	-	-	-	-	-	-	-
Total	64,516	17,143	12,681	13,971	10,805	6,544	4,817	3,516	69,477

Participant Reconciliation							
	<u>Active</u>	<u>Retirees</u>	<b>Beneficiaries</b>	<u>Total</u>			
Beginning of Year (12/31/2017)	70,374	61,675	2,633	134,682			
New Hire	4,209	0	0	4,209			
Opt-In	1,065	1	0	1,066			
New Retiree/Beneficiary	(2,324)	2,324	342	342			
Death/Termination/Opt-Out	(3,847)	<u>(2,177)</u>	<u>(282)</u>	(6,306)			
End of Year (12/31/2018)	69,477	61,823	2,693	133,993			

### **Program Provisions Summary**

This section summarizes overall eligibility provisions for retiree health coverage, the various plans offered by the Commonwealth.

#### **Eligibility**

Eligible employees who retire from the state and meet one of the following eligibility criteria are eligible to receive REHP benefits

- 25 or more years of service;
- 20 or more years of service and superannuation age Age 50 for Park Rangers, Capitol Police and certain enforcement officers or 60 for general employees (age 55 or 65 for employees subject to Act 120 of 2010);
- Disability retirement requires five years of service (no service requirement for enforcement officers).

#### **Covered Family Members**

Spouses and dependents are eligible for subsidized postemployment medical coverage while the retiree is alive. The PPACA, signed into law on March 23, 2010, increased the dependent child age limit to age 26 and applied to the Commonwealth effective January 1, 2011.

#### **Retiree Contribution\***

Retirement before July 1, 2005: Commonwealth pays full cost.

Retirement after June 30, 2005 and before July 1, 2007: retiree contributions are 1% of final annual salary.

Retirement on or after July 1, 2007 and before July 1, 2011: retiree contributions are 3% for non-Medicare and 1.5% for Medicare of either final gross annual base salary or final average salary, whichever is less.

Retirement on or after July 1, 2011: retiree contributions are 3% of final average salary for non-Medicare and 1.5% of final average salary for Medicare.

Hired on or after August 1, 2003: In addition to the retiree contributions above, non-Medicare retirees who elect the Choice PPO plan are required to pay the incremental cost between the Choice PPO plan and the least expensive plan (LEP) in county of residence through monthly pension deductions (PPO buy-up).

Surviving spouses of deceased retirees may continue to participate in the plan if they pay the full cost of the coverage.

\* Certain bargaining units may have different retiree contribution arrangements

## **Program Provisions Summary (cont.)**

## **Medical Plans**

The following tables list the medical plans offered to retirees and provide the basic benefit provisions.

Medical	Benef	Eligibility	
	<u>In Network</u>		Non-Medicare
	Deductible	\$1,500 individual, \$3,000 family	eligible annuitants
	Out-of-Pocket Limit (including	\$7,900 individual, \$15,800 family	retired from the
	deductibles and co-pays)		Commonwealth and
	Doctor Office Visits	PCP: \$20 co-pay	their eligible
		Specialist: \$45 co-pay	dependents.
	Inpatient	Covered in full (after deductible)	
	Lifetime Maximum	None	
Basic PPO	Out of Network		
	Deductible	\$3,000 individual, \$6,000 family	
	Out-of-Pocket Limit (including	\$7,900 individual, \$15,800 family	
	deductibles)		
	Doctor Office Visits	PCP: 30% coinsurance (after deductible)	
		Specialist: 30% coinsurance (after	
		deductible)	
	Inpatient	30% coinsurance (after deductible)	
	Lifetime Maximum	None	
	<u>In Network</u>		Non-Medicare
	Deductible	\$400 individual, \$800 family	eligible annuitants
	Out-of-Pocket Limit (including	\$7,900 individual, \$15,800 family	retired from the
	deductibles and co-pays)		Commonwealth and
	Doctor Office Visits	PCP: \$20 co-pay	their eligible
		Specialist: \$45 co-pay	dependents.
	Inpatient	Covered in full (after deductible)	
	Lifetime Maximum	None	
Choice PPO	Out of Network		
	Deductible	\$800 individual, \$1,600 family	
	Out-of-Pocket Limit (including	\$7,900 individual, \$15,800 family	
	deductibles)		
	Doctor Office Visits	PCP: 30% coinsurance (after deductible)	
		Specialist: 30% coinsurance (after	
		deductible)	
	Inpatient	30% coinsurance (after deductible)	
	Lifetime Maximum	None	

## **Program Provisions Summary (cont.)**

Medical	Benef	Eligibility	
	<u>In Network</u>		Non-Medicare
	Deductible	None	eligible annuitants
	Out-of-Pocket Limit (including	\$7,900 individual, \$15,800 family	retired from the
	deductible and co-pays)		Commonwealth and
Custom HMO	Doctor Office Visits	PCP: \$5 co-pay	their eligible
		Specialist: \$10 co-pay (Referral	dependents living
		Required)	within the HMO
	Inpatient	Covered in full	service area.
	Lifetime Maximum	None	
	<u>In Network</u>		Medicare eligible
	Deductible	Annual Medicare Part B deductible	annuitants retired
	Out-of-Pocket Limit (including	\$2,500 per person	from the
	deductible)		Commonwealth and
	Doctor Office Visits	PCP: \$20 co-pay (after deductible)	their eligible
		Specialist: \$30 co-pay (after deductible)	dependents.
Medicare	Inpatient	Covered in full (after deductible)	
Advantage PPO	Lifetime Maximum	None	
	Out of Network		
	Deductible	2 times Annual Medicare Part B deductible	
	Out-of-Pocket Limit (including	\$2,500 per person	
	deductible)		
	Doctor Office Visits	20% coinsurance (after deductible)	
	Inpatient	20% coinsurance (after deductible)	
	Lifetime Maximum	None	
	<u>In Network</u>		Medicare eligible
	Deductible	None	annuitants retired
	Out-of-Pocket Limit	\$2,500	from the
Medicare	Doctor Office Visits	PCP: \$20 co-pay	Commonwealth and
Advantage HMO		Specialist: \$30 co-pay	their eligible
	Inpatient	Covered in full	dependents living
	Lifetime Maximum	None	within the HMO
			service area.

## **Program Provisions Summary (cont.)**

### **Prescription Drug**

The co-payments for all prescriptions covered by the plan are:

Prescriptions at a Network Pharmacy (30-day supply): \$15 Generic / \$40 Preferred\* / \$80 Non-Preferred\*

Mail Order or Retail Maintenance at a CVS Pharmacy (90-day supply): \$22.50 Generic / \$60 Preferred\* / \$120 Non-Preferred\*

Retail Maintenance at a Rite Aid Pharmacy (90-day supply): \$30 Generic / \$80 Preferred\* / \$160 Non-Preferred\*

\*Plus an additional out-of-pocket cost for the difference between brand and generic, if one exists.

### **Changes in Program Provisions**

None.

#### **Actuarial Methods**

#### **Actuarial Cost Method**

The Actuarial Cost Method used to determine the Total OPEB Liability is the Entry Age Normal (EAN) method as prescribed by GASB Nos. 74 and 75. This method is in the family of future benefit cost methods, which requires an estimate of the projected benefit payable at retirement to determine costs and liabilities.

The Normal Cost (or Service Cost) is the annual allocation required for each participant from entry date to the assumed retirement date so that the accumulated allocation at retirement is equal to the liability for the projected benefit. The projected benefits are based on estimates of future years of service and projected health benefit costs. The normal cost is developed as a level percent of compensation as prescribed by GASB Nos. 74 and 75.

The Present Value of Future Benefits is equal to the value of the projected benefit payable at retirement discounted back to the participant's current age. Discounts include such items as interest and mortality. The present value of future normal cost allocations is equal to the discounted value of the normal costs allocated from the participant's current age to retirement age.

The difference between the Present Value of Future Benefits and the Present Value of Future Normal Cost allocations represents the Total OPEB Liability at the participant's current age.

The Total OPEB Liability for participants currently receiving payments is calculated as the actuarial present value of future benefits expected to be paid. No normal cost is allocated for these participants.

#### **Financial and Census Data**

The Commonwealth of Pennsylvania provided the participant data, financial information and plan descriptions used in this valuation. The actuary has checked the data for reasonableness but has not independently audited the data. The actuary has no reason to believe the data is not complete and accurate and knows of no further information that is essential to the preparation of the actuarial valuation.

#### **Plan Fiduciary Net Position**

Market value of assets as of the measurement date.

#### **Census Date**

December 31, 2018 for June 30, 2019 measurements.

#### **Measurement Date**

June 30, 2019 for fiscal year ended June 30, 2019 trust financial statements (GASB No. 74) and for fiscal year ending June 30, 2020 participating employer financial statements (measurement date as of the end of the prior fiscal year end for GASB No. 75).

### **Method Changes Since Prior Valuation**

None

## **Actuarial Assumptions**

### **Economic Assumptions**

The economic assumptions were selected for consistency with SERS where applicable. The discount rate was selected based on the requirements prescribed in GASB Nos. 74 and 75.

Discount Rate	3.50% as of June 30, 2019						
	3.87% as of June 30, 2	018					
		Since REHP has insufficient assets to meet next year's projected benefit payments, as prescribed by GASB					
					r tax-exempt general obligation		
					ne measurement date. The		
	· ·			-	er 20-Bond General Obligation		
	Index.						
Inflation <sup>1</sup>	2.60%						
Payroll Growth <sup>1</sup>	2.90%						
Salary Scale <sup>1</sup>	The career salary scal	e shown below	includes average increa	ses in the emp	loyee salary due to promotions		
	and longevity growth.	The average ca	areer salary growth is 2.6	55 percent per	year. In addition, it is assumed		
	that the salary schedu	ıles will increas	e by 2.90 percent per ye	ar. The scale be	elow does not include the		
		assumed 2.90 percent general salary increase.					
	Career Salary Scale fo	<u>Career Salary Scale for Members</u>					
	Completed Years	Annual	Completed Years of	Annual			
	of Service	Increase	Service	Increase			
	1	6.00%	16	2.10%			
	2	4.50	17	2.05			
	3	4.00	18	2.00			
	4	3.75	19	1.95			
	5	3.50	20	1.90			
	6	3.25	21	1.85			
	7	3.00	22	1.75			
	8	2.90	23	1.65			
	9	2.80	24	1.55			
	10	2.70	25	1.45			
	11	2.60	26	1.25			
	12	2.50	27	1.05			
	13	2.40	28	0.90			
	14	2.30	29	0.85			
	15	2.20	30+	0.80			

<sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

#### **Demographic Assumptions**

The demographic assumptions were selected for consistency with SERS where applicable. The retiree health specific assumptions were selected based on recent experience.

#### Mortality<sup>1</sup>

#### **Pre-Retirement Mortality:**

Age	Male	Female
20	0.04%	0.02%
25	0.04	0.02
30	0.05	0.02
35	0.06	0.03
40	0.09	0.04
45	0.13	0.06
50	0.24	0.09
55	0.29	0.14
60	0.35	0.24

#### **Post Retirement Mortality:**

Healthy Participants: The RP-2000 Male and Female Combined Healthy Mortality Tables projected (using Projection Scale AA) to 2016 for males and to 2020 for females, and then further adjusted to ensure sufficient margin improvement in certain age ranges. Each table includes a margin for future improvement in life expectancy.

Disabled Participants: The RP-2000 Male and Female Disabled Retiree Mortality Tables projected (using Projection Scale AA) to 2021 for males and to 2017 for females. Each table includes a margin for future improvement in life expectancy.

#### Disability Incidence<sup>1</sup>

#### **Pre-Retirement Disability:**

Age	Male	Female
25	0.02%	0.04%
30	0.06	0.09
35	0.11	0.14
40	0.17	0.19
45	0.30	0.30
50	0.42	0.45
55	0.55	0.57

<sup>&</sup>lt;sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

#### Withdrawal<sup>1</sup>

#### **General employees\*:**

	Male			Female				
	Years of Service			Years of Service				
Age	0	5	9	14	0	5	9	14
20	24.2%	N/A	N/A	N/A	28.4%	N/A	N/A	N/A
25	18.5	3.0%	2.1%	N/A	22.4	3.7%	2.3%	N/A
30	16.4	3.0	2.1	1.0%	19.2	3.3	2.3	1.7%
35	15.6	2.4	1.3	1.0	15.0	3.2	2.3	1.2
40	15.0	2.4	1.3	1.0	13.4	3.2	1.2	1.0
45	14.4	2.4	0.7	1.1	13.1	2.7	1.2	1.0
50	14.4	2.6	0.7	1.1	13.1	2.7	1.5	1.0
55	14.4	1.9	0.8	0.8	13.1	1.8	1.0	1.6

<sup>\*</sup> For the one primary government agency and three component units with separate contribution arrangements, the assumption is increased by a factor of 2.0 for one year of service or less and increased by 10 percentage points years of service 2 through 9. This assumption was determined based on an analysis of data covering the period from January 1, 2015 to January 1, 2018.

#### **Hazardous Duty employees:**

Years of Service	Rate
0	9.0%
1	4.0
2	3.0
3	3.0
4	2.0
5	1.0
6	1.0
7	0.5
8	0.5
9	0.5
10+	0.2

<sup>&</sup>lt;sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

Early Retirement<sup>1</sup>
(based on early
retirement as defined
by SERS; retirement
prior to OPEB eligibility,
as described above in
the Program Provisions
Summary section, will
not receive other
postemployment
benefit)

#### **General employees:**

#### Hired prior to January 1, 2011:

	5 - 14 Years of Credited Service		15 or More Years of Credited Service		
Age	Male	Female	Male	Female	
25	2.0%	3.7%	N/A	N/A	
30	1.6	1.9	N/A	N/A	
35	1.6	1.9	1.0%	1.2%	
40	1.6	1.9	1.0	1.2	
45	1.4	1.9	1.0	1.6	
50	1.4	1.9	2.0	2.0	
55	1.4	1.9	6.0	6.0	

#### Hired on or after January 1, 2011:

Age	10 or More Years of Credited
	Service
35	1.5%
40	1.5
45	1.5
50	2.0
55	5.5
60	5.5
61	6.0
62	20.0
63	10.0
64	15.0

#### **Hazardous Duty employees:**

1.4% at each age

<sup>&</sup>lt;sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

Normal Retirement<sup>1</sup>
(based on normal retirement as defined by SERS; retirement prior to OPEB eligibility, as described above in the Program Provisions Summary section, will not receive other postemployment benefit)

#### General employees: Hired prior to January 1, 2011:

Age	Male	Female
53	20.0%	23.0%
54 – 55	23.0	23.0
56 - 57	24.0	23.0
58	27.0	23.0
59	30.0	25.0
60	25.0	25.0
61	20.0	20.0
62	25.0	25.0
63 - 64	20.0	20.0
65 – 66	25.0	25.0
67 - 70	23.0	23.0
71 - 79	20.0	20.0
80	100.0	100.0

#### Hired on or after January 1, 2011:

Age	Rate
55	15.0%
56	16.0
57	17.0
58	18.0
59	19.0
60	20.0
61	20.0
62	25.0
63	20.0
64	20.0
65	25.0
66 - 79	20.0
80	100.0

#### **Hazardous Duty employees:**

Age	Rate
50 - 59	10.0%
60 - 64	10.0
65	27.0
66 – 79	32.0
80	100.0

<sup>&</sup>lt;sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

Spouse Age Difference <sup>1</sup>	Females are assumed to be 2 years younger than males.
Participation Rate	100% of employees who currently participate in the active health plan are assumed to elect coverage at retirement.
	Employees who are eligible for but currently opt out of active health coverage are excluded from the valuation.
	Retirees who currently elect to waive their coverage are assumed to remain uncovered in the future.
Coverage Level Election	Employees are assumed to maintain their current coverage election when they retire.
Rates	Current retirees are assumed to continue their current coverage election.
Surviving Spouse	45% of spouses are assumed to elect to continue coverage after the retiree's death.
Continuing Coverage	

-

<sup>&</sup>lt;sup>1</sup> For consistency with the pension plan of which these participants are members, these assumptions are based on those used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016.

#### **Benefit Assumptions**

#### Per Capita Claims Costs

The per capita claims costs used in the valuation were developed from fully insured premiums, self-insured claims experience, and projected administrative expenses that represent the expected claims costs and administrative expenses for 2019.

The first-year per capita claims costs below are on a "net basis" – they reflect plan costs after reduction from the total benefit costs of the member cost-sharing (deductibles, coinsurance, co-pays, provider savings, Medicare, etc.). These claims were blended based on the current enrollment mix by plan, separately for the non-Medicare eligible and Medicare eligible population, resulting in an average claims cost per member. Average claims costs were age-graded using the retiree age and gender distribution, separately for the non-Medicare eligible and Medicare eligible population. These age-graded claims costs are the basis for projecting the gross cost for each individual, before member contributions for coverage. The aging factors are based on the Society of Actuaries age-curve study "Health Care Costs—From Birth to Death." Future year per capita costs were projected by applying trend assumptions to the first-year costs.

Since the claims costs table below is specific to the experience of the Commonwealth's retirees (i.e., not blended with active employees) separately for non-Medicare and Medicare, there is no implicit subsidy. However, age-graded claims were developed to project the increases in costs related to aging for retirees, spouses, and surviving spouses.

For Non-Medicare Eligible retirees hired on or after August 1, 2003, the curve below is multiplied by a factor of 0.996 to reflect a difference in participation rates.

#### 2019 Annual Per Capita Claims Costs

	Non				
_Age_		Eligible	Medicare Eligible		
45	\$	7,817	\$	2,629	
50		9,534		2,629	
55		11,744		2,629	
60		14,376		2,629	
64		17,114		2,629	
65		17,896		2,629	
70		21,511		2,900	
75		25,488		3,127	
80		29,633		3,293	
85		33,686		3,366	
90		37,288		3,351	
95		39,395		3,260	

**Expenses** 

Per Capita Claims Costs were developed to include administrative expenses.

#### **Trend Rates**

The trend rates illustrated below are used to project age-graded claims and flat rates into future years. Trend rates were developed based on the most recently published SOA-Getzen trend rate model, version 2019\_b (previously version 2018\_c). The 2019 through 2022 trend assumptions (before noted adjustments) were based on a review of the Commonwealth's historical trend rates during the years 2015 through 2018 and emerging experience, separately for non-Medicare and Medicare benefits. The Commonwealth's experience along with industry surveys were used to predict short-term future per capita cost increases. The most recently published SOA-Getzen model was then used to determine the trend rates beginning in 2023 and thereafter, based on the plan's long-term inflation assumption and reasonable macro-economic assumptions for the growth of health care expenditures during this period relative to the general economy.

Year	January 1, 2019 Assumption	
	Non-Medicare Benefits	Medicare Benefits
2019	6.0%*	5.9%**
2020	5.9%	5.8%**
2021	5.8%	5.7%**
2022	5.7%	5.6%**
2023	5.6%	5.6%
2030	5.4%	5.4%
2040	5.4%	5.4%
2050	5.1%	5.1%
2060	4.9%	4.9%
2070	4.5%	4.5%
2075+	4.1%	4.1%

<sup>\*</sup> The non-Medicare trend in 2019 was adjusted to be (1.1%) based on rebidding of prescription drug benefits and preliminary estimates of calendar year 2020 claims experience.

#### **Excise Tax**

Effective in the 2022 calendar year, an excise tax on "Cadillac Plans" will apply as a result of PPACA. HMOs and other healthcare insurers, who offer plans with a higher cost than the excise tax threshold, will be charged a 40% tax on the costs exceeding the threshold. Due to the expectation that the medical trend rate will significantly exceed inflation over the long-term, most retiree health plans will be affected by the excise tax at some point in the future. After adjusting the thresholds for the age and gender characteristics of the Commonwealth's policy holders, however, the excise tax is projected to only have an impact of less than 1% on the total OPEB liability. Claim costs are projected to exceed the excise tax threshold in year 2034.

#### **Medicare Eligibility**

Current non-Medicare eligible retirees and spouses (if covered) over age 65 are assumed to remain non-Medicare eligible.

Current Medicare eligible retirees and spouses (if covered) under age 65 are assumed to remain Medicare eligible.

All other retirees and spouses (if covered) are assumed to be non-Medicare eligible prior to age 65 and Medicare eligible at age 65, unless their spouse is over age 65 and non-Medicare eligible.

<sup>\*\*</sup> The Medicare trend in 2019 – 2022 was adjusted for fully insured Medicare Advantage premium guarantees for calendar years 2020 – 2022 and expectations for the renewal in 2023. The 2019 trend was also adjusted for the rebidding of prescription drug benefits. The adjusted 2019 – 2022 Medicare trend rates are (32.9%), 3.6%, 5.7% and 27.5%.

#### Coverage

Current retirees are assumed to remain in their currently elected plan.

Current employees are assumed to enroll at retirement in the same proportion as the current retiree mix. These proportions are established separately by non-Medicare/Medicare coverage and Non-Medicare further by participants hired before/on or after August 1, 2003 to reflect enrollment when PPO buy up applies. The table below shows the enrollment percentage by plan.

Non-Medicare	Adult Member Enrollment (Pre-03)	Adult Member Enrollment (Post-03)
Highmark Basic PPO	17.0%	26.4%
Aetna Choice PPO	71.2%	59.0%
Aetna HMO SE Region	0.5%	0.0%
Aetna HMO Central Region	2.1%	3.8%
Aetna HMO Western Region	2.2%	2.8%
Geisinger HMO NE Region	7.0%	7.9%

Medicare	Adult Member Enrollment
Aetna Medicare PPO	75.0%
Aetna Medicare PPO ESA	2.2%
Aetna Medicare HMO In State	0.7%
Aetna Medicare HMO Out of State	0.1%
Geisinger MHMO Central PA	4.8%
Geisinger MHMO Northeastern PA	3.1%
UPMC MHMO	11.8%
UPMC MHMO FLEX	0.2%
CBC Blue Journey	2.2%
CBC Out of State Parts A & B	0.0%

## Changes in Assumptions

- The discount rate was decreased from 3.87% to 3.50%.
- Per capita claims costs were updated based on changes in the underlying claims and benefit provisions.
- The trend rates were updated based on the SOA-Getzen trend rate model version 2019\_b. The 2019 non-Medicare trend assumption is based on preliminary estimates of calendar year 2018 claims experience. The initial 2019 through 2022 trend assumptions were based on a review of the Commonwealth's historical trend rates during the years 2015 through 2018 and emerging experience, separately for non-Medicare and Medicare benefits. The Medicare Advantage Plan trend in 2019, 2020, and 2022 was adjusted based on the fully-insured Medicare Advantage premium guarantees for calendar years 2020 2022 and the expected increase to market rates for the renewal in 2022.

## **Rationale for Assumptions**

Discount Rate	GASB 74 and 75 require that the discount rate be based on the yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher. This valuation report will serve as the basis for the Commonwealth's trust and employer financial reporting disclosure requirements under GASB Nos. 74 and 75. Accordingly, the discount rate used to determine the June 30, 2019 benefit obligation is based on the 20-year Bond Buyer GO Index.
Inflation, Payroll Growth, Salary Scale, Mortality, Disability Incidence, Withdrawal, Early and Normal Retirement	Consistent with the assumptions used for the SERS Actuarial Valuation Report as of December 31, 2018 and experience study presented to the Board in March 2016. The inflation assumption was selected by the SERS Board during an April of 2017 meeting based on a review of actual plan experience and the prevalent economic outlook.

### **Glossary**

Brief explanations of terms used in this report:

#### **Annual OPEB Expense**

The change in Net OPEB Liability less the change in the Deferred Outflows of Resources plus the change in the Deferred Inflows of Resources.

#### Collective deferred outflows of resources and deferred inflows of resources related to OPEB

Deferred outflows of resources and deferred inflows of resources related to OPEB arising from certain changes in the collective net OPEB liability or collective total OPEB liability.

#### **Covered Employee Payroll**

Annual compensation paid (or expected to be paid) to active employees covered by an OPEB plan, in aggregate.

#### **Implicit Rate Subsidy**

Many post-employment health plans charge the same premium rates for all participants in a non-Medicare plan regardless of their age. This single premium rate is called a blended premium rate because it blends the expected claims of both active and retired participants. Retirees are generally older than the average participant in a non-Medicare plan, which means they are expected to generate higher claims than the average participant of the plan; therefore, they are receiving a subsidy even if they pay 100% of the blended premium rate because they would be paying less in premiums than their expected claims costs. This subsidy is referred to as the "Implicit Rate Subsidy".

#### **Net OPEB liability (NOL)**

The liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit OPEB plan that is administered through a trust that meets the criteria of the GASB Statements.

#### **Normal Cost or Service Cost**

The portion of the Total Present Value of Future Benefits attributed to employee service during the current fiscal year by the actuarial cost method. These terms are used interchangeably.

#### Other Postemployment Benefits (OPEB)

Retiree health care benefits and post-employment benefits provided separately from a pension plan (excluding termination offers and benefits).

#### **Fiduciary Net Position (FNP)**

Set equal to the market value of assets as of the measurement date

#### **Present Value of Future Benefits (PVFB)**

The value, as of the valuation date, of the projected benefits payable to all members for their accrued service and their expected future service, discounted to reflect the time value (present value) of money and adjusted for the probabilities of retirement, withdrawal, death and disability.

#### **Total OPEB liability (TOL)**

The portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service in conformity with the GASB Statements. The total OPEB liability is the liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit OPEB plan that is not administered through a trust that meets the criteria of the GASB Statements.