MacLeod Watts

December 18, 2024

Chief Scott Lindgren
Fire Chief
Tahoe Douglas Fire Protection District
PO Box 919
Zephyr Cove, NV 89448

Re: **PEBP** Other Postemployment Benefits of Tahoe Douglas Fire Protection District GASB 75 Actuarial Report for the Fiscal Year Ending June 30, 2024

Dear Chief Lindgren:

We are pleased to enclose our actuarial report providing financial information about the other postemployment benefit (OPEB) liabilities of Tahoe Douglas Fire Protection District (the District). **This report covers only former employees and retirees covered by the Nevada Public Employees' Benefit Plan** (PEBP). The report's text describes our analysis and assumptions in detail.

The primary purposes of this report are to:

- 1. Calculate the District's OPEB liabilities relating to PEBP as of December 31, 2023, in accordance with GASB 75's biennial valuation requirement.
- 2. Provide information required by GASB 75 ("Accounting and Financial Reporting for Postemployment Benefits Other Than Pension") to be reported in the District's financial statements for the fiscal year ending June 30, 2024.

We began the valuation process by collecting updated PEBP retiree data and current monthly subsidy amounts. Because the soundness of the report is dependent on the inputs, we encourage you to review our summary of this information to be sure it matches your records. Results presented in the report reflect that the District is financing its PEBP OPEB liability on a pay-as-you-go basis. Some assumptions have been updated since the prior valuation.

We appreciate the opportunity to work on this analysis and acknowledge the efforts of the District employees who provided valuable time and information to enable us to perform this valuation. Please let us know if we can be of further assistance.

Sincerely,

Catherine L. MacLeod, FSA, FCA, MAAA
Principal & Consulting Actuary

Enclosure



Tahoe Douglas Fire Protection District PEBP Retirees

Actuarial Valuation of Other Post-Employment Benefit Programs
As of December 31, 2023

& GASB 75 Report for the Fiscal Year Ending June 30, 2024

Submitted December 2024

MacLeod Watts

Table of Contents

A.	Executive Summary	1
	OPEB Obligations of the District for PEBP Members	1
	OPEB Funding Policy	1
	Actuarial Assumptions	2
	Important Dates Used in the Valuation	2
	Updates Since the Prior Report	2
	Impact on Statement of Net Position and OPEB Expense for Fiscal Year Ending 2024	3
	Important Notices	3
B.	Valuation Process	4
C.	Valuation Results as of December 31, 2023	5
D.	Accounting Information (GASB 75)	8
	Components of Net Position and Expense	8
	Change in Net Position During the Fiscal Year	9
	Recognition Period for Deferred Resources	10
	Deferred Resources as of Fiscal Year End and Expected Future Recognition	10
	Schedule of Deferred Outflows and Inflows of Resources	10
	Sensitivity of Liabilities to Changes in the Discount Rate and Healthcare Cost Trend Rate.	11
	Schedule of Changes in the District's Net OPEB Liability and Related Ratios	12
	Schedule of Contributions	13
	Detail of Changes to Net Position	14
	District Contributions to the Plan	15
	Projected Benefit Payments (15-year projection)	16
	Sample Journal Entries	17
E.	Funding Information	18
F.	Certification	19
G.	Supporting Information	20
	Section 1 - Summary of Employee Data	20
	Section 2 - Summary of Retiree Benefit Provisions	21
	Section 3 - Actuarial Methods and Assumptions	22
Арр	endix 1: Important Background Information	25
Арр	endix 2: MacLeod Watts Mortality Projection Methodology	29
Glos	ssarv	30



A. Executive Summary

This report presents the results of our December 31, 2023, actuarial valuation and other postemployment benefit liabilities for Tahoe Douglas Fire Protection District **retirees covered by the Nevada Public Employees' Benefit Plan (PEBP).** The purpose of this report is to provide information about this plan required by Statement No. 75 of the Governmental Accounting Standards Board (GASB 75) for the District's fiscal year end June 30, 2024. A separate GASB 75 report has been prepared for OPEB liabilities of the Tahoe Douglas Fire Protection District Healthcare Plan.

Important background information regarding the valuation process can be found in Appendix 1. We recommend users of the report read this information to familiarize themselves with the process and context of actuarial valuations, including the requirements of GASB 75. The pages following this executive summary discuss the valuation results in detail and present various exhibits appropriate for disclosures under GASB 75.

The results of the December 31, 2023, valuation will likely also be applied to prepare the District's PEBP GASB 75 report for the fiscal year ending June 30, 2025. If there are any significant changes in the retiree population, plan benefits or eligibility, an earlier valuation may be required or appropriate.

OPEB Obligations of the District for PEBP Members

Nevada has legislated certain unique rights to retiree medical coverage. Nevada Revised Statutes (NRS) 287.023 provide that, prior to December 1, 2008, (most) local agency retirees could elect to continue in their employer's health plan after retirement, or join PEBP, Nevada's health plan for non-State public agency employees (Section 1).

For retirees and former employees covered by a medical plan offered through PEBP:

- Explicit subsidy liabilities: As noted above, the District is required to provide a monthly subsidy toward the cost of medical coverage for retirees and their dependents covered under PEBP. Liabilities relating to these projected benefits are included in this valuation. These benefits are described in Supporting Information, Section 2.
- Implicit subsidy liabilities: It is MacLeod Watts's understanding that PEBP operates a separate pool from the State plan members for evaluating the claims and setting premiums for Nevada Public Agency PEBP participation. The Public Agency pool consists almost entirely of retired members. We have assumed that no significant subsidy, if any, of retiree premiums by active premiums exists under this program and as such have not included any implicit subsidy liability in this valuation.

OPEB Funding Policy

The District's OPEB funding policy affects the calculation of liabilities by impacting the discount rate that is used to develop the plan liability and expense. "Prefunding" is the term used when an agency consistently contributes an amount based on an actuarially determined contribution (ADC) each year. GASB 75 allows prefunded plans to use a discount rate that reflects the expected earnings on trust assets. Pay-as-you-go, or "PAYGO", is the term used when an agency only contributes the required retiree benefits when due. When an agency finances retiree benefits on a pay-as-you-go basis, GASB 75 requires the use of a discount rate equal to a 20-year high grade municipal bond rate.



Executive Summary (Continued)

The District confirmed that it continues to finance this PEBP OPEB liability on a pay-as-you-go basis. With the District's approval, the discount rate used in this valuation is based on the Fidelity Municipal Bond AA 20 Year Maturity Index. At the beginning and end of the Measurement Period, use of this index results in discount rates of 4.05% as of December 31, 2022, and 3.77% as of December 31, 2023.

Actuarial Assumptions

The basic mortality rates used in this report are the same as the rates used for the most recent valuation of the retirement plan(s) covering District employees, though a different table was applied to project future mortality improvement. Other assumptions, such as healthcare trend and retiree participation rates, were selected based on demonstrated plan experience and/or our best estimate of expected future experience. These assumptions, and more, impact expected future benefits. Please note that this valuation has been prepared on a closed group basis. This program is (essentially) closed to new District retirees and only the retirees covered by PEBP as of the valuation date are considered.

We emphasize that this actuarial valuation provides a projection of future results based on many assumptions. Actual results are likely to vary to some extent and we will continue to monitor these assumptions in future valuations. See Section 3 for a description of assumptions used in the valuation.

Important Dates Used in the Valuation

GASB 75 allows reporting liabilities as of any fiscal year end based on: (1) a *valuation date* no more than 30 months plus 1 day prior to the close of the fiscal year end; and (2) a *measurement date* up to one year prior to the close of the fiscal year. The following dates were used for this report:

Fiscal Year End June 30, 2024

Measurement Date December 31, 2023

Measurement Period December 31, 2022, to December 31, 2023

Valuation Date December 31, 2023

Updates Since the Prior Report

No benefit changes were reported to MacLeod Watts from those provided to us for the 2021 valuation. The District provided an updated retiree census and benefit levels. With this information, we determined the difference between actual and expected results (referred to as "plan experience"). We also reviewed and updated certain assumptions used to project the OPEB liability.

The Total OPEB Liability on the current measurement date is higher than that reported one year ago. Section C. provides additional information on the impact of the new assumptions and plan experience and the assumption changes are described at the end of Supporting Information Section 3. See *Recognition Period for Deferred Resources* on page 10 for details on how these changes are recognized.



Executive Summary (Concluded)

Impact on Statement of Net Position and OPEB Expense for Fiscal Year Ending 2024

The accounting impact of the PEBP retiree coverage for the District's fiscal year ending June 30, 2024, is shown below.

Items	For Reporting A Fiscal Year Endin June 30, 2024					
Total OPEB Liability	\$	85,501				
Fiduciary Net Position						
Net OPEB Liability	\$	85,501				
Adjustment for Deferred Resources:						
Deferred (Outflows)		(3,811)				
Deferred Inflows						
Impact on Statement of Net Position	\$	81,690				
OPEB Expense, FYE 6/30/2024	\$	8,932				

Important Notices

This report is intended to be used only to present the actuarial information relating to other postemployment benefit liabilities for PEBP retirees for the District's financial statements. The results of this report may not be appropriate for other purposes, where other assumptions, methodology and/or actuarial standards of practice may be required or more suitable. We note that various issues in this report may involve legal analysis of applicable law or regulations. The District should consult counsel on these matters; MacLeod Watts does not practice law and does not intend anything in this report to constitute legal advice. In addition, we recommend the District consult with their internal accounting staff or external auditor or accounting firm about the accounting treatment of OPEB liabilities.



B. Valuation Process

This valuation is based on retiree data and benefits initially submitted to us by the District and clarified in various related communications. A summary of the census data is provided in Section 1 and a summary of the benefits provided under the Plan is provided in Section 2. While individual member records were reviewed for reasonableness, the data has not been audited and we have otherwise relied on the District as to its accuracy. The valuation has been performed in accordance with the process described below using the actuarial methods and assumptions described in Section 3 and is consistent with our understanding of Actuarial Standards of Practice.

In developing the projected benefit values and liabilities in a situation where there are only retirees, we first determine an expected benefit stream over each retiree's anticipated future lifetime. We discount the value of each future expected benefit payment back to the valuation date, using the discount rate to develop the present value of these benefits as of the valuation date. The present value of benefits payable for each retiree reflects expected trends in the cost of those benefits and the assumptions as to the expected date(s) those benefit will be paid.

The sum of the present values for all retirees forms the Present Value of Projected Benefits" (PVPB). Where there are only retirees in the plan, the PVPB is equal to the "Total OPEB Liability" (TOL). There is no service cost in a plan with no active employees.

The District is financing the plan on a pay-as-you-go basis. This policy does not establish a trust to prefund benefits and pays retirees benefits each year as required. Therefore, the **Net OPEB Liability** (**NOL**) is equal to the Total OPEB Liability. The NOL represents, as of the valuation date, the present value of benefits already earned by past service that remain unfunded. Future contributions by the District will equal each year's retiree benefit payments.

Please note that projections of future benefits over long periods (frequently 25 or more years) which are dependent on numerous assumptions regarding future economic and demographic variables are subject to substantial revision as future events unfold. While we believe that the assumptions and methods used in this valuation are reasonable for the purposes of this report, the costs to the District reflected in this report are subject to future revision, perhaps materially. Demonstrating the range of potential future plan costs was beyond the scope of our assignment except to the limited extent of providing liability information at various discount rates.

Certain actuarial terms and GASB 75 terms may be used interchangeably. Some are shown below.

Actuarial Terminology	GASB 75 Terminology
Present Value of Projected Benefits (PVPB)	No equivalent term
Actuarial Accrued Liability (AAL)	Total OPEB Liability (TOL)
Market Value of Assets (MVA)	Fiduciary Net Position
Actuarial Value of Assets (AVA)	No equivalent term
Unfunded Actuarial Accrued Liability (UAAL)	Net OPEB Liability
Normal Cost	Service Cost



C. Valuation Results as of December 31, 2023

This section presents the basic results of our recalculation of the OPEB liability using the updated employee data, plan provisions and asset information provided to us for the December 31, 2023, valuation. We described the general process for projecting all future benefits to be paid to retirees and current employees in the preceding Section. Expected annual benefits have been projected on the basis of the actuarial assumptions outlined in Supporting Information, Section 3.

Lifetime healthcare benefits are paid for qualified retirees enrolled in PEBP health coverage. Please see Supporting Information, Section 2 for details.

The following graph illustrates the annual other post-employment benefits projected to be paid on behalf of current retirees and current employees expected to retire from the District.

Projected to be Paid During Retirement to Current Employees and Retirees \$9,000 ■ Explicit Payments ■ Trend +1% \$8,000 \$7,000 \$6,000 \$5,000 \$4,000 \$3,000 \$2,000 \$1,000 Ś-2024 2034 2044 2054 2064

OPEB Payments

Projected to be Paid During Retirement to Current Employees and Retirees

The amounts shown in green reflect the expected payment by the District toward monthly retiree PEBP benefits. The projections (in gray) reflect increases in benefit levels if healthcare trend were 1% higher.

The first 15 years of benefit payments from the graph above are shown in tabular form on page 16.

Liabilities relating to these projected benefits are shown beginning on the following page.



Valuation Results as of December 31, 2023 (Continued)

This chart summarizes the results as of December 31, 2023 (the measurement date for FYE 2024 reporting), based on the current valuation. These results are compared to the results as of December 31, 2022, the measurement date for FYE 2023, which were based on the prior actuarial valuation.

Valuation Date	12/31/202	1 12/31/2023
Fiscal Year Ending	6/30/2023	6/30/2024
Measurement Date	12/31/202	2 12/31/2023
Discount rate	4.05%	3.77%
Number of Covered Employees		
Actives	0	0
Retirees	4	5
Total Participants	4	5
OPEB Subsidy Type	Total	Total
Actuarial Present Value of Projected Benefits	\$ 84,1	89 \$ 85,501
Total OPEB Liability (TOL)	84,1	89 85,501
Fiduciary Net Position	-	-
Net OPEB Liability	84,1	89 85,501

We can see from the chart above that the Total OPEB Liability increased by \$1,312 over the past year. Some of this change was expected and some was unexpected.

Expected changes: The TOL was expected to decrease by \$4,367, reflecting interest costs accruing for the period and reduced by benefits paid to retirees.

Unexpected changes increased the expected TOL by \$5,679 and fall into these categories:

- *Plan experience* increased the TOL by \$3,786 reflecting results different than expected based on the prior valuation data and assumptions. The primary reasons are shown in the chart on the next page.
- Assumption changes: Collectively, these changes increased the TOL by \$1,893. These changes are
 listed in the chart on the following page and described further on the last page in Supporting
 Information, Section 3.
- Benefit changes: There were no changes reported since the prior valuation was completed.



Valuation Results as of December 31, 2023 (Concluded)

This chart reconciles the TOL measured December 31, 2022, to the TOL measured December 31, 2023.

Reconciliation of Changes During Measurement Period	Total OPEB Liability		
Balance at Fiscal Year Ending 6/30/2023 Measurement Date 12/31/2022	\$	84,189	
Expected Changes During the Period:			
Service Cost		-	
Interest Cost		3,253	
Benefit Payments		(7,620)	
Total Expected Changes During the Period		(4,367)	
Expected at Fiscal Year Ending 6/30/2024 Measurement Date 12/31/2023	\$	79,822	
Unexpected Changes During the Period:			
Plan Experience:			
Lower Mortality Than Expected		6,599	
Medicare Exchange Subsidies Lower Than Expected		(6,159)	
New PEBP Retiree Added		2,769	
Medicare Eligibility Status Change For One Retiree		1,915	
Other Plan Experience		(1,338)	
Assumption Changes:			
Change in Discount Rate		1,917	
Change in Healthcare Trend		(24)	
Total Unexpected Changes During the Period		5,679	
Balance at Fiscal Year Ending 6/30/2024 Measurement Date 12/31/2023	\$	85,501	



D. Accounting Information (GASB 75)

The following exhibits are designed to satisfy the reporting and disclosure requirements of GASB 75 relating to retiree PEBP coverage for the fiscal year ending June 30, 2024, and to facilitate an audit of plan changes. The District is classified for GASB 75 purposes as a single employer.

Components of Net Position and Expense

The exhibit below shows the development of Net Position and Expense as of the Measurement Date.

Plan Summary Information for FYE June 30, 2024 Measurement Date is December 31, 2023		PEBP
Items Impacting Net Position:		
Total OPEB Liability	\$	85,501
Fiduciary Net Position		-
Net OPEB Liability (Asset)		85,501
Deferred (Outflows) Due to:		
Assumption Changes		-
Plan Experience		-
Investment Experience		-
Deferred Contributions		(3,811)
Deferred Inflows Due to:		
Assumption Changes		-
Plan Experience		-
Investment Experience	_	
Impact on Statement of Net Position, FYE 6/30/2024	\$	81,690
Items Impacting OPEB Expense:		
Service Cost	\$	-
Cost of Plan Changes		-
Interest Cost		3,253
Expected Earnings on Assets		-
Recognition of Deferred Outflows:		
Assumption Changes		1,893
Plan Experience		3,786
Investment Experience		-
Recognition of Deferred (Inflows):		
Assumption Changes		-
Plan Experience		-
Investment Experience		
OPEB Expense, FYE 6/30/2024	\$	8,932



Change in Net Position During the Fiscal Year

The exhibit below shows the year-to-year changes in the components of Net Position.

For Reporting at Fiscal Year End Measurement Date		30/2023 /31/2022	-	3 0/2024 /31/2023	Change During Period
Total OPEB Liability	\$	84,189	\$	85,501	\$ 1,312
Fiduciary Net Position		-			
Net OPEB Liability (Asset)		84,189		85,501	1,312
Deferred (Outflows) Due to:					
Assumption Changes		-		-	-
Plan Experience		-		-	-
Investment Experience		-		-	-
Deferred Contributions		(3,808)		(3,811)	(3)
Deferred Inflows Due to:					
Assumption Changes		-		-	-
Plan Experience		-		-	-
Investment Experience					
Impact on Statement of Net Position	\$	80,381	\$	81,690	\$ 1,309
Change in Net Position During the Fiscal \	ear/				
Impact on Statement of Net Position, FYE	6/30/	2023	\$	80,381	
OPEB Expense (Income)				8,932	
Tahoe Douglas FPD Contributions During F	iscal	Year		(7,623)	
Impact on Statement of Net Position, FYE	6/30/	2024	\$	81,690	
OPEB Expense					
Tahoe Douglas FPD Contributions During F	iscal	Year	\$	7,623	
Deterioration (Improvement) in Net Positi	on			1,309	
OPEB Expense (Income), FYE 6/30/2024			\$	8,932	



Recognition Period for Deferred Resources

Liability changes due to plan experience that differs from what was assumed in the prior year and/or due to assumption changes during the year are recognized over the Expected Average Remaining Service Life ("EARSL"). In a closed plan with no active members, such as PEBP, these differences between expected and actual experience and/or changes in assumptions are recognized in full in the current measurement period.

Deferred Resources as of Fiscal Year End and Expected Future Recognition

The exhibit below shows deferred resources for the fiscal year ending June 30, 2024.

Tahoe Douglas FPD	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$ -	\$ -
Differences Between Expected and Actual Experience	-	-
Net Difference Between Projected and Actual Earnings on Investments	-	-
Deferred Contributions	3,811	-
Total	\$ 3,811	\$ -

Schedule of Deferred Outflows and Inflows of Resources

Other than deferred contributions, there are no deferred resource bases which extend beyond the current measurement period for pay-as-you-go plans in which all participants are retired. The chart below shows the liability changes to be recognized in full during this measurement period.

Measurement Date: December 31, 2023

	Deferred Outflow or (Inflow)												
		Impact on						В	alance				
Date		Net OPEB	ı	nitial	Period		Annual		as of				
Created	Source	Liability (NOL)	Aı	mount	(Yrs)	Re	cognition	Dec	31, 2023				
	Plan	Increased											
12/31/2023	Experience	NOL	\$	3,786	1.00	\$	3,786	\$	-				
	Assumption	Increased											
12/31/2023	Changes	NOL		1,893	1.00		1,893		-				



Sensitivity of Liabilities to Changes in the Discount Rate and Healthcare Cost Trend Rate

The discount rate used for the fiscal year ending 2024 is 3.77%. Healthcare cost trend rate prior to eligibility for Medicare was assumed to start at 6.5% (effective July 1, 2025) and grade down to 3.9% by 2075; medical cost inflation for those covered by Medicare is assumed to be 4.5% per year.

The impact of a 1% increase or decrease in these assumptions is shown in the chart below.

Sensitivity to:												
Change in Discount Rate	Current - 1% 2.77%	Current 3.77%	Current + 1% 4.77%									
Net OPEB Liability (Asset) Increase (Decrease) % Increase (Decrease)	93,034 7,533 8.8%	85,501	78,996 (6,505) -7.6%									
Change in Healthcare Cost Trend Rate	Current Trend - 1%	Current Trend	Current Trend + 1%									
Net OPEB Liability (Asset) Increase (Decrease)	79,365 (6,136)	85,501	92,455 6,954									
% Increase (Decrease)	-7.2%		8.1%									



Schedule of Changes in the District's Net OPEB Liability and Related Ratios

GASB 75 requires presentation of the 10-year history of changes in the Net OPEB Liability. Results since GASB 75 was implemented are shown below.

Fiscal Year Ending June 30	2024		2023		2022		2021		2020		2019		2018
Measurement Date Discount Rate on Measurement Date	/31/2023 3.77%	-	/31/2022 4.05%	12	2/31/2021 1.84%	12	2/31/2020 2.00%	12	/31/2019 2.75%	12	2/31/2018 3.71%	-	/31/2017 3.31%
Total OPEB liability													
Service Cost	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Interest	3,253		1,901		2,853		3,913		4,109		4,120		4,829
Changes of benefit terms Differences between expected and actual experience	- 3,786		-		- (17,827)		-		- 7,604		-		-
Changes of assumptions	1,893		(17,499)		(14,560)		10,380		34,243		(4,024)		5,407
Benefit payments	(7,620)		(7,079)		(13,083)		(14,231)		(14,552)		(13,089)		(11,920)
Net change in total OPEB liability	1,312		(22,677)		(42,617)		62		31,404		(12,993)		(1,684)
Total OPEB liability - beginning	84,189		106,866		149,483		149,421		118,017		131,010		132,694
Total OPEB liability - ending (a)	\$ 85,501	\$	84,189	\$	106,866	\$	149,483	\$	149,421	\$	118,017	\$	131,010
Plan fiduciary net position - beginning	 -		-		-		-		-		-		-
Plan fiduciary net position - ending (b)	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Net OPEB liability - ending (a) - (b)	\$ 85,501	\$	84,189	\$	106,866	\$	149,483	\$	149,421	\$	118,017	\$	131,010

There is no covered payroll in this plan; all members are retired.



Schedule of Changes in the District's Net OPEB Liability and Related Ratios (concluded)

2024	2023	2022	2021	2020	2019	2018		
12/31/2023	12/31/2022	12/31/2021	12/31/2020	12/31/2019	12/31/2018	12/31/2017		
3.77%	4.05%	1.84%	2.00%	2.75%	3.71%	3.31%		
12/31/2023	12/31	/2021	12/31	/2019	12/31	./2017		
Actuarial cost method Normal Level % of Pav					Entry Age Normal Level % of Pay			
2.50%	2.5	50%	2.5	50%	2.75%			
Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075	January 202 down to 3.9	2 fluctuating 9% by 2076.	July 2021 fluo to 4.0%	ctuating down by 2076.				
N/A; All Retired	N/A; All Retired		N/A; All Retired		N/A; All Retired			
N/A; All Retired	N/A; Al	l Retired	N/A; All	l Retired	N/A; All Retired			
NV PERS 2021 Experience Study		NV PERS 2021 Experience Study		· ·		RPH-2014 Healthy Annuitant		bined Healthy uitant
MW Scale 2022 Generationally	MW Scale 2022 Generationally				MW Sca Genera		MW Scale 2017 Generationally	
	12/31/2023 3.77% 12/31/2023 Entry Age Normal Level % of Pay 2.50% Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075 N/A; All Retired N/A; All Retired NV PERS 2021 Experience Study	12/31/2023 12/31/2022 3.77% 4.05% 12/31/2023 12/31 Entry Age Normal Level % of Pay 2.50% 2.5 Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075 N/A; All Retired Study NV PERS 2021 Experience Study	12/31/2023 12/31/2022 12/31/2021 3.77% 4.05% 1.84% 12/31/2023 12/31/2021 Entry Age Normal Level % of Pay Entry Age Normal Level % of Pay 2.50% 2.50% Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075 Pre-Medicare: 6.0% effective January 2022 fluctuating down to 3.9% by 2076. Post-Medicare: 4.5% N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired NV PERS 2021 Experience Study NV PERS 2021 Experience Study	12/31/2023 12/31/2022 12/31/2021 12/31/2020 3.77% 4.05% 1.84% 2.00% 12/31/2023 12/31/2021 12/31 Entry Age Normal Level % of Pay Entry Age Normal Level % of Pay Entry Age Level % Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075 2.50% 2.5 Pre-Medicare: July 2025 	12/31/2023 12/31/2022 12/31/2021 12/31/2020 12/31/2019 2.00% 2.75% 12/31/2023 12/31/2021 12/31/2019 Entry Age Normal Level % of Pay Entry Age Normal Level % of Pay Entry Age Normal Level % of Pay 2.50% 2.50% 2.50% Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2076. Post-Medicare: 4.5% Pre-Medicare: 5.4% effective July 2021 fluctuating down to 4.0% by 2076. Post-Medicare: 4.5% N/A; All Retired	12/31/2023 12/31/2022 12/31/2021 12/31/2020 12/31/2019 12/31/2018 3.77% 4.05% 1.84% 2.00% 2.75% 3.71% 12/31/2023 12/31/2021 12/31/2019 12/31 Entry Age Normal Level % of Pay Entry Age Normal Level % of Pay Pre-Medicare: 6.5% effective July 2025 grading down to 3.9% by 2075 2.50% 2.50% 2.7 Pre-Medicare: July 2021 fluctuating down to 3.9% by 2076. Post-Medicare: 4.5% Pre-Medicare: 5.4% effective July 2021 fluctuating down to 4.0% by 2076. Post-Medicare: 4.5% Pre-Medicare: July 2018 gra 5.0% b Post-Medicare: 4.5% 5.0% b Post-Medicare: 4.5% N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired N/A; All Retired NV PERS 2021 Experience Study RPH-2014 Healthy Annuitant RP-2000 Com Annu		

Schedule of Contributions

This schedule is not required to be provided for an unfunded OPEB plan.



Detail of Changes to Net Position

The chart below details changes to all components of Net Position.

	Total	Fiduciary	Net		(d) Defer	red Outflows:		(e)	Deferred Infl	ows:	Impact on
Tahoe Douglas FPD	OPEB Liability (a)	Net Position (b)	OPEB Liability (c) = (a) - (b)	Assumption Changes	Plan Experience	Investment Experience	Deferred Contributions	Assumption Changes	Plan Experience	Investment Experience	Statement of Net Position (f) = (c) - (d) + (e)
Balance at Fiscal Year Ending 6/30/2023 Measurement Date 12/31/2022	\$ 84,189	\$ -	\$ 84,189	\$ -	\$ -	\$ -	\$ 3,808	\$ -	\$ -	\$ -	\$ 80,381
Changes During the Period:											
Service Cost	-		-								-
Interest Cost	3,253		3,253								3,253
Expected Investment Income		-	-								-
Tahoe Douglas FPD Contributions		7,620	(7,620)								(7,620)
Changes of Benefit Terms	-		-								-
Benefit Payments	(7,620)	(7,620)	-								-
Assumption Changes	1,893		1,893	1,893							-
Plan Experience	3,786		3,786		3,786						-
Investment Experience		-	-							-	-
Recognized Deferred Resources				(1,893)	(3,786)	-	(3,808)	-	-	-	9,487
Contributions After Measurement Date							3,811				(3,811)
Net Changes in Fiscal Year 2023-2024	1,312	-	1,312	-	-	-	3	-	-	-	1,309
Balance at Fiscal Year Ending 6/30/2024 Measurement Date 12/31/2023	\$ 85,501	\$ -	\$ 85,501	\$ -	\$ -	\$ -	\$ 3,811	\$ -	\$ -	\$ -	\$ 81,690



District Contributions to the Plan

District contributions to the Plan occur as benefits are paid to retirees and/or to the OPEB trust. Benefit payments may occur in the form of direct payments for premiums ("explicit subsidies") and/or indirect payments to retirees in the form of higher premiums for active employees ("implicit subsidies"). For details, see Appendix 1 – Important Background Information.

Benefits paid during the measurement period (January 1 through December 31, 2023): \$ 7,620

Benefits paid during the fiscal year (July 1, 2023 through June 30, 2024): \$ 7,623

Deferred contributions (paid January 1, 2024 through June 30, 2024): \$ 3,811



Projected Benefit Payments (15-year projection)

The following is an estimate of other post-employment benefits to be paid on behalf of current retirees covered by PEBP. Expected annual benefits have been projected using the actuarial assumptions outlined in Section 3.

Projected Annual Benefit Payments					
Ending	PEBP				
June 30	Subsidy				
2024	\$ 7,623				
2025	7,560				
2026	7,435				
2027	7,263				
2028	7,045				
2029	6,761				
2030	6,458				
2031	6,123				
2032	5,763				
2033	5,389				
2034	5,012				
2035	4,646				
2036	4,302				
2037	3,987				
2038	3,702				



Sample Journal Entries

OPEB Accounts at Beginning of Fiscal Year	By So Debit	ource Credit	Sources C Debit	ombined Credit
Net OPEB Liability		84,189		84,189
Deferred Outflow:				
Assumption Changes	-			
Plan Experience	-			
Investment Experience	-			
Contribution Subsequent to MD	3,808			
Deferred Outflows			3,808	
Deferred Inflow:				
Assumption Changes		-		
Plan Experience		-		
Investment Experience		-		
Deferred Inflows				-
Record Benefits Paid to Retirees	De	bit	Cre	dit
Net OPEB Liability	7,6	523		
Cash			7,6	523
Record End of Year	By Sc	ource	Sources C	
	By So	ource Credit		
Record End of Year			Sources C	ombined
Record End of Year Updates to OPEB Accounts		Credit	Sources C	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability		Credit	Sources C	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow:		Credit	Sources C	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience		Credit	Sources C	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD		Credit	Sources C Debit	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience	Debit	Credit	Sources C	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD Deferred Outflows Deferred Inflow:	Debit	Credit	Sources C Debit	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD Deferred Outflows Deferred Inflow: Assumption Changes	Debit	Credit	Sources C Debit	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD Deferred Outflows Deferred Inflow: Assumption Changes Plan Experience	Debit	Credit	Sources C Debit	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD Deferred Outflows Deferred Inflow: Assumption Changes Plan Experience Investment Experience	Debit	Credit	Sources C Debit	ombined Credit
Record End of Year Updates to OPEB Accounts Net OPEB Liability Deferred Outflow: Assumption Changes Plan Experience Investment Experience Contribution Subsequent to MD Deferred Outflows Deferred Inflow: Assumption Changes Plan Experience	Debit	Credit	Sources C Debit	ombined Credit



E. Funding Information

Our understanding is that the District is currently financing its PEBP OPEB liability on a pay-as-you-go basis. Prefunding (setting aside funds to accumulate in an irrevocable OPEB trust) has certain advantages, one of which is the ability to (potentially) use a higher discount rate in the determination of liabilities for GASB 75 reporting purposes.

Should the District wish to explore potential future prefunding for this plan we can prepare illustrations of various funding levels and, if appropriate, perform a formal funding valuation at that time. Results under a funding scenario may be materially different from the results presented in this report.



F. Certification

The purpose of this report is to provide actuarial information in compliance with Statement 75 of the Governmental Accounting Standards Board (GASB 75) for other postemployment benefits provided by the Tahoe Douglas Fire Protection District for retired employees covered by PEBP.

In preparing this report we relied without audit on information provided by the District. This information includes, but is not limited to, plan provisions, census data, and financial information. We summarized the benefits in this report and our calculations were based on our understanding of the benefits as described herein. A limited review of this data was performed, and we found the information to be reasonably consistent. The accuracy of this report is dependent on this information and if any of the information we relied on is incomplete or inaccurate, then the results reported herein will be different from any report relying on more accurate information.

We consider the actuarial assumptions and methods used in this report to be individually reasonable under the requirements imposed by GASB 75 and taking into consideration reasonable expectations of plan experience. The results, and the assumptions on which they depend, provide an estimate of the plan's financial condition at one point in time. Future actuarial results may be significantly different due to a variety of reasons including, but not limited to, demographic and economic assumptions differing from future plan experience, changes in plan provisions, changes in applicable law, or changes in the value of plan benefits relative to other alternatives available to plan members.

Alternative assumptions may also be reasonable; however, demonstrating the range of potential plan results based on alternative assumptions was beyond the scope of our assignment except to the limited extent required by GASB 75. Plan results for accounting purposes may be materially different than results obtained for other purposes such as plan termination, liability settlement, or underlying economic value of the promises made by the plan.

This report is prepared solely for the use and benefit of the District and may not be provided to third parties without prior written consent of MacLeod Watts. Exceptions: The District may provide copies of this report to their professional accounting and legal advisors who are subject to a duty of confidentiality, and the District may provide this work to any party if required by law or court order. No part of this report should be used as the basis for any representations or warranties in any contract or agreement without the written consent of MacLeod Watts.

The undersigned actuaries are unaware of any relationship that might impair the objectivity of this work. Nothing within this report is intended to be a substitute for qualified legal or accounting counsel. Both actuaries are members of the American Academy of Actuaries and meet the qualification standards for rendering this opinion.

Signed: December 18, 2024

Catherine L. MacLeod, FSA, FCA, EA, MAAA

Marissa C. Schreiber, Actuarial Analyst



G. Supporting Information

Section 1 - Summary of Employee Data

Active members: There are no active District employees covered by or eligible for coverage under PEBP.

Retired members: As of the December 2023 valuation date, there were 5 former employees or retirees for whom the District pays a subsidy toward the cost of PEBP coverage. We estimated the age of one new retiree added to the invoice based on the coverage selected (not on the Medicare Exchange).

Retirees by Age						
Current Age	Number	Percent				
Below 50	0	0%				
50 to 54	0	0%				
55 to 59	0	0%				
60 to 64	1	20%				
65 to 69	2	40%				
70 to 74	0	0%				
75 to 79	0	0%				
80 & up	2	40%				
Total	100%					
Average Attained Age for						
Retirees: 71.1						

While the plan is generally closed to District retirees after June 30, 2008, former employees covered by PEBP at the time of their retirement (through a subsequent employer) may join the plan and, if this occurs, the District is assessed a portion of their cost.

The chart below summarizes the change in the number of PEBP retirees between valuations:

Reconciliation of PEBP Retiree Population					
Retirees as of December 2021	4				
Deceased or dropped coverage	0				
Added to PEBP invoice	1				
Retirees as of December 2023	5				



Supporting Information (Continued)

Section 2 - Summary of Retiree Benefit Provisions

PEBP Eligibility: PEBP closed to non-State public agency retirees on September 1, 2008, unless the agency's active employees are participating in PEBP. However, the District is responsible for a portion of the PEBP subsidy for a former employee retiring after September 1, 2008, from the State or from a Non-State public agency whose active employees participate in PEBP.

For a retiree to participate in the PEPB program, the participant must be receiving a PERS benefit. PERS eligibility requirements vary by employee group and benefit type.

Benefits for PEBP retirees: Those retirees and former employees who were eligible and elected PEBP coverage are entitled to a subsidy toward their premium cost based on their years of covered employment under Nevada PERS. The subsidy is shared on a pro-rata basis by the employers for which the retiree has worked and earned PERS service credit. Thus, the District is obligated to subsidize health care premiums for former employees as well as those who retired directly from the District.

The Nevada Legislature changes the benefit subsidies from time to time. The monthly subsidy continues to be based on years of credited service under Nevada PERS, though the level differs for pre-Medicare and Medicare eligible retirees. The subsidy ends at the earlier of the retiree's death or the date he or she discontinues coverage.

There are exceptions to the amounts shown below:

- (a) Participants who retired before June 30, 1994, receive the 15 year subsidy, regardless of their years of covered service and
- (b) Participants do not receive a subsidy if they were hired by their last employer on or after June 30, 2010, retired with less than 15 years of service and were not disabled.

Agency Subsidy for PEBP Coverage for Non-State pre-Medicare retirees:

The subsidy provided to pre-Medicare retirees varies based on the type of plan selected (PPO or HMO) and by the level of coverage taken (e.g., single, two party, family, etc.). This chart shows the monthly amounts payable beginning July 2023 for those with 15 years of PERS service. Actual pre-Medicare subsidies for Dec 31, 2023, as invoiced to the District by individual, were used for the valuation.

		PPO Low	Statewide
	PPO CDHP	Deductible	EPO/HMO
	Base		Base
Coverage Level	Subsidy	Base Subsidy	Subsidy
For 1.	RS service		
Retiree Only	\$ 688.61	\$ 729.92	\$ 622.70
Retiree + Spouse	1,259.92	1,342.52	1,128.09
Retiree + Children	902.87	959.64	812.19
Retiree + Family	1,474.16	1,572.29	1,317.59

HRA Contributions for non-State Medicare Retirees covered by the Exchange:

Amounts paid for Medicare eligible retirees covered by the Exchange do not vary by type of plan or coverage level; they vary only by years of PERS membership service.

On December 31, 2023, the monthly subsidy for retirees on the Medicare Exchange was \$13 per month per year of PERS service, with a maximum benefit payable of \$260 per month.



Supporting Information (Continued)

Section 3 - Actuarial Methods and Assumptions

The ultimate real cost of an employee benefit plan is the value of all benefits and other expenses of the plan over its lifetime. These payments depend only on the terms of the plan and the administrative arrangements adopted. Actuarial assumptions are used to estimate the cost of these benefits; the funding method spreads the expected costs on a level basis over the life of the plan.

Important Dates

Valuation Date December 31, 2023

GASB 75 Measurement Date December 31, 2023

Fiscal Year End June 30, 2024

Valuation Methods

Funding Method Entry Age Normal Cost, level percent of pay

Asset Valuation Method Not applicable (\$0, no OPEB trust has been established)

Participants Valued Only current PEBP retirees are valued.

Economic Assumptions

Municipal Bond Index Fidelity Municipal Bond AA 20 Year Maturity Yield

Discount Rate 4.05% as of December 31, 2022

3.77% as of December 31, 2023

General Inflation Rate 2.5% per year

Salary Increase Not applicable; there are no active employees in this plan.

Healthcare Trend Post-Medicare healthcare cost increase trend is 4.5%.

The District's payments toward the pre-Medicare PEBP retiree premiums are assumed to increase at the following rates:

Effective	Subsidy	Effective	Subsidy
July 1	Increase	July 1	Increase
2024	actual	2040-2043	4.8%
2025	6.5%	2044-2049	4.7%
2026	6.0%	2050-2059	4.6%
2027	5.5%	2060-2065	4.5%
2028	5.4%	2066-2067	4.4%
2029	5.3%	2068-2069	4.3%
2030	5.2%	2070	4.2%
2031	5.1%	2071-2072	4.1%
2032-2037	5.0%	2073-2074	4.0%
2038-2039	4.9%	2075 & later	3.9%



Supporting Information (Continued)

Section 3 - Actuarial Methods and Assumptions

Healthcare Trend (concluded)

The healthcare trend shown above was developed using the

Getzen Model 2023 published by the Society of Actuaries using the following settings: CPI 2.5%; Real GDP Growth 1.4%; Excess Medical Growth 1.0%; Expected Health Share of GDP in 2032 20%; Resistance Point 21%; Year after which medical growth is

limited to growth in GDP 2075.

Participant Election Assumptions

Participation Rate Retirees: All retirees currently covered by PEBP are assumed to

retain their existing election until death.

Medicare Eligibility Absent contrary data, all individuals are assumed to be eligible

for Medicare Parts A and B at 65. Retirees over age 65 who are

not eligible for Medicare are assumed to remain ineligible.

Demographic Assumptions

Mortality The rates described below were described in the September

2021 experience study report of the Nevada PERS program as being reasonably representative of mortality experience as of

that date.

Non-disabled life rates for Regular employees:

Males: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table with rates increased by 30%

Females: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table with rates increased by 15%

Mortality Improvement The mortality rates described above were adjusted to anticipate

future mortality improvement by applying MacLeod Watts Scale 2022 on a generational basis from 2010 forward (see Appendix

2 for details).

Software and Models Used in the Valuation

ProVal - MacLeod Watts utilizes ProVal, a licensed actuarial valuation software product from Winklevoss Technologies (WinTech) to project future retiree benefit payments and develop the OPEB liabilities presented in this report. ProVal is widely used by the actuarial community. We review results at the plan level and for individual sample lives and find them to be reasonable and consistent with the results we expect. We are not aware of any material inconsistencies or limitations in the software that would affect this actuarial valuation.

Getzen model – published by the Society of Actuaries; used to derive medical trend assumptions described earlier in this section.



Supporting Information (Concluded)

Section 3 - Actuarial Methods and Assumptions

Assumption Changes Since the Prior Valuation

Discount Rate: Changed from 4.05% on December 31, 2022, to 3.77% on

December 31, 2023, based on the published change in return for

the applicable municipal bond index.

Medical trend For pre-Medicare PEBP retiree benefits, updated from the

Getzen Model 2022_b to the Getzen Model 2023, as published

by the Society of Actuaries



Appendix 1: Important Background Information

General Types of Other Post-Employment Benefits (OPEB)

Post-employment benefits other than pensions (OPEB) comprise a part of compensation that employers offer for services received. The most common OPEB are medical, prescription drug, dental, vision, and/or life insurance coverage. Other OPEB may include outside group legal, long-term care, or disability benefits outside of a pension plan. OPEB does not generally include COBRA, vacation, sick leave (unless converted to defined benefit OPEB), or other direct retiree payments.

A direct employer payment toward the cost of OPEB benefits is referred to as an "explicit subsidy". In addition, if claims experience of employees and retirees are pooled when determining premiums, retiree premiums are based on a pool of members which, on average, are younger and healthier. For certain types of coverage such as medical insurance, this results in an "implicit subsidy" of retiree premiums by active employee premiums since the retiree premiums are lower than they would have been if retirees were insured separately. GASB 75 and Actuarial Standards of Practice generally require that an implicit subsidy of retiree premium rates be valued as an OPEB liability.

·		/				
Expected retiree claims						
Premium charged f	Covered by higher active premiums					
Retiree portion of premium	Agency portion of premium Explicit subsidy	Implicit subsidy				

This chart shows the sources of funds needed to cover expected medical claims for pre-Medicare retirees in a program where a uniform premium rate is charged for all active and retired members regardless of their age. This is not how premiums are currently designed under the District's Plan.

However, for virtually all Nevada public agencies with retirees in PEBP, these retirees are in a separate pool consisting almost exclusively of retirees. The claims experience of this pool is developed separately from that of other PEBP members; thus, no implicit subsidy liability exists or it is insignificant for these retirees.

Valuation Process

The valuation was based on employee census data and benefits provided by the District. A summary of the employee data is provided in Section 1 and a summary of the benefits provided under the Plan is provided in Section 2. While individual employee records have been reviewed to verify that they are reasonable in various respects, the data has not been audited and we have otherwise relied on the District as to its accuracy. The valuation was also based on the accuracial methods and assumptions described in Section 3.

In developing the projected benefit values and liabilities, we first determine an expected premium or benefit stream over the employee's future retirement. Benefits may include both direct employer payments (explicit subsidies) and/or an implicit subsidy, arising when retiree premiums are expected to be subsidized by active employee premiums. The projected benefit streams reflect assumed trends



Important Background Information (Continued)

in the cost of those benefits and assumptions as to the expected date(s) when benefits will end. We then apply assumptions regarding:

- The probability that each individual employee will or will not continue in service to receive benefits.
- The probability of when such retirement will occur for each retiree, based on current age, service and employee type; and
- The likelihood that future retirees will or will not elect retiree coverage (and benefits) for themselves and/or their dependents.

We then calculate a present value of these benefits by discounting the value of each future expected benefit payment, multiplied by the assumed expectation that it will be paid, back to the valuation date using the discount rate. These benefit projections and liabilities have a very long time horizon. The final payments for currently active employees may not be made for 25 years or more.

The resulting present value for each employee is allocated as a level percent of payroll each year over the employee's career using the entry age normal cost method and the amounts for each individual are then summed to get the results for the entire plan. This creates a cost expected to increase each year as payroll increases. Amounts attributed to prior fiscal years form the "Total OPEB Liability". The OPEB cost allocated for active employees in the current year is referred to as "Service Cost". Note that there is no service cost in this PEBP valuation, because there are no active employees covered by this plan.

Where contributions have been made to an irrevocable OPEB trust, the accumulated value of trust assets ("Fiduciary Net Position") is applied to offset the "Total OPEB Liability", resulting in the "Net OPEB Liability". If a plan is not being funded, then the Net OPEB Liability is equal to the Total OPEB Liability.

It is important to remember that an actuarial valuation is, by its nature, a projection of one possible future outcome based on many assumptions. To the extent that actual experience is not what we assumed, future results will differ. Some possible sources of future differences may include:

- A significant change in the number of covered or eligible plan members;
- A change in the subsidy provided by the District toward PEBP coverage;
- Longer life expectancies of retirees;
- Establishment of and recurring the District contributions to an irrevocable OPEB trust; and
- Changes in the discount rate used to value the OPEB liability



Important Background Information (Continued)

Requirements of GASB 75

The Governmental Accounting Standards Board (GASB) issued GASB Statement No. 75, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. This Statement establishes standards for the measurement, recognition, and disclosure of OPEB expense and related liabilities (assets), note disclosures, and required supplementary information (RSI) in the financial reports of state and local governmental employers.

Important Dates

GASB 75 requires that the information used for financial reporting falls within prescribed timeframes. Actuarial valuations of the total OPEB liability are generally required at least every two years. If a valuation is not performed as of the Measurement Date, then liabilities are required to be based on roll forward procedures from a prior valuation performed no more than 30 months and 1 day prior to the most recent year-end. In addition, the net OPEB liability is required to be measured as of a date no earlier than the end of the prior fiscal year (the "Measurement Date").

Recognition of Plan Changes and Gains and Losses

Under GASB 75, gains and losses related to changes in Total OPEB Liability and Fiduciary Net Position are recognized in OPEB expense systematically over time.

- Timing of recognition: Changes in the Total OPEB Liability relating to changes in plan benefits are recognized immediately (fully expensed) in the year in which the change occurs. Gains and Losses are amortized, with the applicable period based on the type of gain or loss. The first amortized amounts are recognized in OPEB expense for the year the gain or loss occurs. The remaining amounts are categorized as deferred outflows and deferred inflows of resources related to OPEB and are to be recognized in future OPEB expense.
- Deferred recognition periods: These periods differ depending on the source of the gain or loss.

Difference between projected and actual trust earnings: 5 year straight-line recognition

All other amounts: Straight-line recognition over the expected average remaining service lifetime (EARSL) of all members that are provided with benefits, determined as of the beginning of the Measurement Period. Because PEBP is closed and there are no active members, all differences between expected and actual experience and/or changes in assumptions are recognized immediately.

Discount Rate

When the financing of OPEB liabilities is on a pay-as-you-go basis, GASB 75 requires that the discount rate used for valuing liabilities 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 (or equivalent quality on another rating scale). When a plan sponsor makes regular, sufficient contributions to a trust in order to prefund the OPEB liabilities, GASB 75 allows use of a rate up to the expected rate of return of the trust. Therefore, prefunding has an advantage of potentially being able to report overall lower liabilities due to future expected benefits being discounted at a higher rate.



Important Background Information (Continued)

Actuarial Funding Method and Assumptions

The "ultimate real cost" of an employee benefit plan is the value of all benefits and other expenses of the plan over its lifetime. These expenditures are dependent only on the terms of the plan and the administrative arrangements adopted, and as such are not affected by the actuarial funding method.

The actuarial funding method attempts to spread recognition of these expected costs on a level basis over the life of the plan, and as such sets the "incidence of cost". GASB 75 specifically requires that the actuarial present value of projected benefit payments be attributed to periods of employee service using the Entry Age Actuarial Cost Method, with each period's service cost determined as a level percent of pay.

The results of this report may not be appropriate for other purposes, where other assumptions, methodology and/or actuarial standards of practice may be required or more suitable.



Appendix 2: MacLeod Watts Mortality Projection Methodology

Actuarial standards of practice (e.g., ASOP 35, Selection of Demographic and Other Noneconomic Assumptions for Measuring Pension Obligations, and ASOP 6, Measuring Retiree Group Benefits Obligations) indicate that the actuary should reflect the effect of mortality improvement (i.e., longer life expectancies in the future), both before and after the measurement date. The development of credible mortality improvement rates requires the analysis of large quantities of data over long periods of time. Because it would be extremely difficult for an individual actuary or firm to acquire and process such extensive amounts of data, actuaries typically rely on large studies published periodically by organizations such as the Society of Actuaries or Social Security Administration.

As noted in a recent actuarial study on mortality improvement, key principles in developing a credible mortality improvement model would include the following:

- (1) Short-term mortality improvement rates should be based on recent experience.
- (2) Long-term mortality improvement rates should be based on expert opinion.
- (3) Short-term mortality improvement rates should blend smoothly into the assumed long-term rates over an appropriate transition period.

The **MacLeod Watts Scale 2022** was developed from a blending of data and methodologies found in two published sources: (1) the Society of Actuaries Mortality Improvement Scale MP-2021 Report, published in October 2021 and (2) the demographic assumptions used in the 2021 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds, published August 2021.

MacLeod Watts Scale 2022 is a two-dimensional mortality improvement scale reflecting both age and year of mortality improvement. The underlying base scale is Scale MP-2021 which has two segments – (1) historical improvement rates for the period 1951-2017 and (2) an estimate of future mortality improvement for years 2018-2020 using the Scale MP-2021 methodology but utilizing the assumptions used in generating Scale MP-2015. The MacLeod Watts scale then transitions from the 2020 improvement rate to the Social Security Administration (SSA) Intermediate Scale linearly over the 10-year period 2021-2030. After this transition period, the MacLeod Watts Scale uses the constant mortality improvement rate from the SSA Intermediate Scale from 2030-2044. The SSA's Intermediate Scale has a final step in 2045 which is reflected in the MacLeod Watts scale for years 2045 and thereafter. Over the ages 95 to 117, the age 95 improvement rate is graded to zero.

Scale MP-2021 can be found at the SOA website and the projection scales used in the 2021 Social Security Administrations Trustees Report at the Social Security Administration website.



Glossary

<u>Actuarial Funding Method</u> – A procedure which calculates the actuarial present value of plan benefits and expenses, and allocates these expenses to time periods, typically as a normal cost and an actuarial accrued liability

<u>Actuarial Present Value of Projected Benefits (APVPB)</u> – The amount presently required to fund all projected plan benefits in the future. This value is determined by discounting the future payments by an appropriate interest rate and the probability of nonpayment.

<u>Defined Benefit (DB)</u> – A pension or OPEB plan which defines the monthly income or other benefit which the plan member receives at or after separation from employment

<u>Defined Contribution (DC)</u> – A pension or OPEB plan which establishes an individual account for each member and specifies how contributions to each active member's account are determined and the terms of distribution of the account after separation from employment

<u>Discount Rate</u> - Interest rate used to discount future potential benefit payments to the valuation date. Under GASB 75, if a plan is prefunded, then the discount rate is equal to the expected trust return. If a plan is not prefunded (pay-as-you-go), then the rate of return is based on a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

<u>Expected Average Remaining Service Lifetime (EARSL)</u> – Average of the expected remaining service lives of all employees that are provided with benefits through the OPEB plan (active employees and inactive employees), beginning in the current period

<u>Entry Age Actuarial Cost Method</u> – An actuarial funding method where, for each individual, the actuarial present value of benefits is levelly spread over the individual's projected earnings or service from entry age to the last age at which benefits can be paid

<u>Explicit Subsidy</u> – The projected dollar value of future retiree healthcare costs expected to be paid directly by the Employer, e.g., the Employer's payment of all or a portion of the monthly retiree premium billed by the insurer for the retiree's coverage

<u>Fiduciary Net Position</u> –The value of trust assets used to offset the Total OPEB Liability to determine the Net OPEB Liability.

<u>Government Accounting Standards Board (GASB)</u> – A private, not-for-profit organization which develops generally accepted accounting principles (GAAP) for U.S. state and local governments; like FASB, it is part of the Financial Accounting Foundation (FAF), which funds each organization and selects the members of each board

<u>Health Care Trend</u> – The assumed rate(s) of increase in future dollar values of premiums or healthcare claims, attributable to increases in the cost of healthcare; contributing factors include medical inflation, frequency or extent of utilization of services and technological developments.

<u>Implicit Subsidy</u> – The projected difference between future retiree claims and the premiums to be charged for retiree coverage; this difference results when the claims experience of active and retired employees are pooled together and a 'blended' group premium rate is charged for both actives and retirees; a portion of the active employee premiums subsidizes the retiree premiums.

<u>Net OPEB Liability (NOL)</u> – The liability to employees for benefits provided through a defined benefit OPEB. Only assets administered through a trust that meet certain criteria may be used to reduce the Total OPEB Liability.



Glossary (Continued)

<u>Net OPEB Liability (NOL)</u> – The liability to employees for benefits provided through a defined benefit OPEB. Only assets administered through a trust that meet certain criteria may be used to reduce the Total OPEB Liability.

<u>Net Position</u> – The Impact on Statement of Net Position is the Net OPEB Liability adjusted for deferred resource items

<u>Nevada PERS</u> – Many state governments maintain a public employee retirement system; Nevada PERS is the Nevada program, covering all eligible state government employees as well as other employees of other governments within Nevada who have elected to join the system

<u>OPEB Expense</u> – The OPEB expense reported in the Agency's financial statement. OPEB expense is the annual cost of the plan recognized in the financial statements.

Other Post-Employment Benefits (OPEB) — Post-employment benefits other than pension benefits, most commonly healthcare benefits but also including life insurance if provided separately from a pension plan

<u>Pay-As-You-Go (PAYGO)</u> – Contributions to the plan are made at about the same time and in about the same amount as benefit payments and expenses coming due

<u>Plan Assets</u> – The value of cash and investments considered as 'belonging' to the plan and permitted to be used to offset the AAL for valuation purposes. To be considered a plan asset, GASB 75 requires (a) contributions to the OPEB plan be irrevocable, (b) OPEB assets to dedicated to providing OPEB benefit to plan members in accordance with the benefit terms of the plan, and (c) plan assets be legally protected from creditors, the OPEB plan administrator and the plan members.

<u>Select and Ultimate</u> – Actuarial assumptions which contemplate rates which differ by year initially (the select period) and then stabilize at a constant long-term rate (the ultimate rate)

<u>Service Cost</u> – Total dollar value of benefits expected to be earned by plan members in the current year, as assigned by the actuarial funding method; also called normal cost

<u>Total OPEB Liability (TOL)</u> – Total dollars required to fund all plan benefits attributable to service rendered as of the valuation date for current plan members and vested prior plan members; a subset of "Actuarial Present Value"

<u>Vesting</u> – As defined by the plan, requirements which when met make a plan benefit nonforfeitable on separation of service before retirement eligibility

