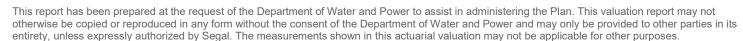
## City of Los Angeles Department of Water and Power

Actuarial Valuation and Review of Other Postemployment Benefits (OPEB)

As of June 30, 2021



Segal



December 7, 2021

Ms. Ann Santilli Chief Financial Officer City of Los Angeles Department of Water and Power 111 N. Hope Street, Room 450 Los Angeles, CA 90011

#### Dear Ann:

We are pleased to submit this Actuarial Valuation and Review of Other Postemployment Benefits (OPEB) as of June 30, 2021. The report summarizes the actuarial data used in the valuation, establishes the Actuarially Determined Contribution (ADC) for the coming year, and analyzes the preceding year's experience. This report was based on the census and financial data provided by the Department of Water and Power (DWP), with exceptions noted for the membership data adjustments in Exhibit II, and the terms of the Plan as communicated to us by DWP. The actuarial calculations were completed under the supervision of Mary Kirby, FSA, MAAA, FCA and Andy Yeung, ASA, MAAA, FCA, EA. The health care trend and other related medical assumptions have been reviewed by Mary Kirby, FSA, MAAA, FCA.

This report was prepared in accordance with generally accepted actuarial principles and practices at the request of DWP to assist in administering the OPEB Plan. The census information and financial information on which our calculations were based was prepared by DWP. That assistance is gratefully acknowledged

This actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate. Further, in our opinion, the assumptions used in this valuation and described in Exhibit II are reasonably related to the experience of and the expectations for the Plan. The actuarial projections are based on these assumptions and the plan of benefits as summarized in Exhibit III.

Sincerely,

Segal

Paul Angelo, FSA, MAAA, FCA, EA Senior Vice President and Actuary Andy Yeung, ASA, MAAA, FGA, EA

Vice President and Actuary

JAC/jl

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#### **Purpose**

This report presents the results of our actuarial valuation of the City of Los Angeles Water and Power (DWP) postretirement medical and dental benefits plan as of June 30, 2021 for funding purposes. The results of the valuation for financial reporting purposes consistent with Governmental Accounting Standards Board (GASB) Statement No. 74 are provided in a separate report.

#### **Highlights of the Valuation**

- 1. The employer has not adopted a formal funding policy. For paying off the unfunded actuarial accrued liability (UAAL), the employer has chosen a single closed (decreasing) amortization period of 30 years beginning June 30, 2005. As of the June 30, 2020 valuation, 15 years remained in the amortization period. However, as of the June 30, 2021 valuation the OPEB Plan is fully funded, i.e., the OPEB Plan has a surplus rather than a UAAL. Absent any statutory requirements to the contrary, we believe this surplus condition calls for a single open (non-decreasing) surplus amortization period of 30 years. We will be strongly recommending the 30-year open surplus amortization period as part of our formal funding policy review and so have prepared this valuation report assuming it will be adopted by the employer.
- 2. The Actuarially Determined Contribution (ADC) rate has decreased from 5.21% of payroll to 4.03% of payroll for the 2021/2022 fiscal year. The decrease in ADC was primarily due to (i) actual investment return on actuarial value (i.e., after asset smoothing) of 11% which is higher than 7% expected in the June 30, 2020 valuation, (ii) actual increase in 2021/2022 premium and subsidy levels of 2.7%, which is lower than expected (as the 2021/2022 Kaiser non-Medicare premiums, upon which the maximum subsidies are based, were projected to increase by 5.9%² from 2020/2021), offset to some degree by (iii) updated trend assumptions for projecting medical premiums after 2021/2022 and (iv) updated medical plan election assumptions. Contribution rates are shown separately for Tier 1 and Tier 2 in Section 2D.
- 3. The ratio of the actuarial value of assets (AVA) to the actuarial accrued liability increased from 93.90% to 101.15%. On a market value of assets basis, the funded ratio increased from 92.51% to 113.58%. The unfunded actuarial accrued liability measured using AVA decreased from \$151.8 million to \$(29.6) million (a surplus of assets over liability). A complete reconciliation of the Plan's unfunded actuarial accrued liability is provided in Section 2B.

<sup>&</sup>lt;sup>2</sup> 5.9% was equal to the sum of a 6.75% premium increase we assumed for non-Medicare Plans adjusted by the 0.85% average premium reduction we assumed for those plans due to the repeal of the Health Insurance Tax (HIT) expected at the time of the June 30, 2020 valuation.



A 30-year amortization period will only provide a small amount of surplus to reduce the Department's contribution to a level below the ongoing Normal Cost contributions. This will provide some safeguard to the Department's budgeting process if a new UAAL were to reemerge in the future due to unfavorable actuarial experience. For instance, this could happen if future market returns were to come in less than anticipated by the investment return assumption.

- 4. As noted above, the Governmental Accounting Standards (GAS) 74 report with a measurement date of June 30, 2021 for financial reporting purposes for the Plan was provided as a separate report.
- 5. The GAS 75 report with a measurement date of June 30, 2021 for financial reporting purposes for the employer (with a reporting date of June 30, 2022) will be provided in the next few months.
- 6. The actuarial valuation report as of June 30, 2021 is based on financial information as of that date. Changes in the value of assets subsequent to that date are not reflected. Declines in asset values will increase the actuarial cost of the Plan, while increases will decrease the actuarial cost of the Plan.
- 7. It is important to note that this actuarial valuation is based on plan assets as of June 30, 2021. Due to the COVID-19 pandemic, market conditions have changed significantly since the onset of the Public Health Emergency. The Plan's funded status does not reflect short-term fluctuations of the market, but rather is based on the market values on the last day of the Plan Year. Moreover, this actuarial valuation is based on Plan membership data as of March 31, 2021 (adjusted to June 30, 2021 by adding 3 months of age and service) and it does not include any possible short-term or long-term impacts on mortality of the covered population that may emerge after March 31, 2021. While it is impossible to determine how the pandemic will affect market conditions and other demographic experience of the Plan in future valuations, Segal is available to prepare projections of potential outcomes upon request.

### **Summary of Valuation Results**

	June 30, 2021	June 30, 2020
Actuarial Accrued Liability (AAL)	\$2,569,281,814	\$2,490,223,378
Actuarial Value of Assets (AVA)	2,598,916,515	2,338,427,041
Unfunded Actuarial Accrued Liability (Surplus) on AVA Basis	(29,634,701)	151,796,337
Funded Ratio on AVA Basis	101.15%	93.90%
Market Value of Assets (MVA)	\$2,918,117,246	\$2,303,713,346
Unfunded Actuarial Accrued Liability (Surplus) on MVA Basis	(348,835,432)	186,510,032
Funded Ratio on MVA Basis	113.58%	92.51%
Total Participants	19,037	19,099
Actuarially Determined Contribution (ADC) for Fiscal Year Ending:	June 30, 2022	June 30, 2021
Normal cost (beginning of year)	\$49,615,449	\$48,226,344
Amortization of the unfunded actuarial accrued liability	(1,580,620)	12,837,468
Adjustment for timing	<u>1,652,784</u>	<u>2,101,087</u>
Total Actuarially Determined Contribution (payable throughout the year)	\$49,687,613	\$63,164,899
Projected total compensation	1,233,265,179	1,211,798,340
ADC as a percentage of pay	4.03%	5.21%

The key valuation results for the current and prior years are shown.

#### **Important Information about Actuarial Valuations**

An actuarial valuation is a budgeting tool with respect to the financing of future projected obligations of an OPEB plan. It is an estimated forecast – the actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

In order to prepare a valuation, Segal relies on a number of input items. These include:

Plan of benefits	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan description in this report to confirm that Segal has correctly interpreted the plan of benefits.
Participant data	An actuarial valuation for a plan is based on data provided to the actuary by DWP. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
Assets	This valuation is based on the market value of assets as of the valuation date, as provided by DWP.
Actuarial assumptions	In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected to be paid for each of those events in each future year reflect actuarial assumptions as to health care plan trend and enrollment. The projected benefits are then discounted to a present value, based on the assumed rate of return that is expected to be achieved on the plan's assets. There is a reasonable range for each assumption used in the projection and the results may vary materially based on which assumptions are selected. It is important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial assumptions may have a significant impact on the reported results that does not mean that the previous assumptions were unreasonable.
Models	Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

- The valuation is prepared at the request of DWP. Segal is not responsible for the use or misuse of its report, particularly by any
  other party.
- An actuarial valuation is a measurement of the plan's assets and liabilities at a specific date. Accordingly, except where otherwise
  noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan
  will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.
- If DWP is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- Critical events for a plan include, but are not limited to, decisions about changes in benefits and contributions. The basis for such
  decisions needs to consider many factors such as the risk of changes in plan enrollment, emerging claims experience and health
  care trend, not just the current valuation results.
- Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. DWP should look to their other advisors for expertise in these areas.

As Segal has no discretionary authority with respect to the management or assets of DWP, it is not a fiduciary in its capacity as actuaries and consultants with respect to DWP.

#### **Actuarial Certification**

December 7, 2021

This is to certify that Segal, a Member of The Segal Group, Inc. has conducted an actuarial valuation of certain benefit obligations of City of Los Angeles Department of Water and Power's other postemployment benefits program as of June 30, 2021, in accordance with generally accepted actuarial principles and practices.

The actuarial valuation is based on the plan of benefits verified by the Employer and reliance on participant, premium, claims and expense data provided by the Employer or from vendors employed by the Employer with exceptions noted for membership data adjustments in Exhibit II. Segal does not audit the data provided. The accuracy and comprehensiveness of the data is the responsibility of those supplying the data. Segal, however, does review the data for reasonableness and consistency.

The actuarial computations made are for purposes of funding the plan. Determinations for purposes other than funding may be significantly different from the results reported here. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security at termination of the plan, or determining short-term cash flow requirements.

To the best of our knowledge, this report is complete and accurate and in our opinion presents the information necessary to fund the Plan with respect to the benefit obligations addressed. The signing actuaries are members of the Society of Actuaries, the American Academy of Actuaries, and other professional actuarial organizations and collectively meet their "General Qualification Standards for Statements of Actuarial Opinions" to render the actuarial opinion contained herein.

Mary Kirby, FSA, MAAA, FCA

Senior Vice President and Consulting Actuary

Andy Yeung, ASA, MAAA, FCA, EA

Vice President and Actuary

# A. Actuarial Present Value of Total Projected Benefits and Actuarial Balance Sheet

The actuarial present value of total projected benefits uses the actuarial assumptions disclosed in Section 4 to calculate the value today of all benefits expected to be paid to current actives and retired plan members. The actuarial balance sheet shows the expected breakdown of how these benefits will be financed.

	Actuarial Present Value of Total Projected Benefits			
	June 30, 2021	June 30, 2020		
Participant Category				
Current retirees, beneficiaries, and dependents	\$1,530,703,039	\$1,454,173,533		
Current active members	<u>1,600,259,615</u>	<u>1,572,488,640</u>		
Total	\$3,130,962,654	\$3,026,662,173		
	Actuarial Balance Sheet			
	June 30, 2021	June 30, 2020		
Assets				
Actuarial value of assets	\$2,598,916,515	\$2,338,427,041		
2. Present value of future normal costs	561,680,840	536,438,795		
3. Unfunded actuarial accrued liability	<u>(29,634,701)</u>	<u>151,796,337</u>		
4. Present value of current and future assets	\$3,130,962,654	\$3,026,662,173		
Liabilities				
5. Actuarial present value of total projected benefits	\$3,130,962,654	\$3,026,662,173		

#### B. Actuarial Accrued Liability (AAL) and Unfunded AAL (UAAL)

The actuarial accrued liability shows that portion of the actuarial present value of total projected benefits allocated to periods prior to the valuation date by the actuarial cost method. The chart below shows the portion of the liability for active and inactive members, and reconciles the unfunded actuarial accrued liability from last year to this year.

	June 30, 2021	June 30, 2020						
Participant Category	Participant Category							
Current retirees, beneficiaries, and dependents	\$1,530,703,039	\$1,454,173,533						
Current active members	<u>1,038,578,775</u>	<u>1,036,049,845</u>						
Total actuarial accrued liability	\$2,569,281,814	\$2,490,223,378						
Actuarial value of assets	2,598,916,515	2,338,427,041						
Unfunded actuarial accrued liability	\$(29,634,701)	\$151,796,337						
Development of Unfunded Actuarial Accrued Liability for the Year Ended June 30, 2021								
1. Unfunded actuarial accrued liability as of June 30, 2020		\$151,796,337						
2. Employer normal cost at beginning of year		48,226,344						
3. Total employer contributions		(110,261,019)						
4. Interest on 1, 2 and 3		<u>10,142,452</u>						
5. Expected unfunded actuarial accrued liability (sum of 1 – 4)		\$99,904,114						
6. Change due to investment experience losses after asset smoothing		(96,613,358)						
7. Change due to non-investment experience losses		(27,007,706)						
8. Change due to premiums on average, increasing less than expected		(91,393,409)						
9. Change due to updating health trend assumptions		85,418,802						
10. Change due to other changes in assumptions and methods		<u>56,856</u>						
11. Subtotal of 6 – 11		<u>\$(129,538,815)</u>						
12. Unfunded actuarial accrued liability as of June 30, 2021		\$(29,634,701)						

#### C. Table of Amortization Bases

DWP is currently working with Segal to develop a formal written funding policy. To date, the employer has chosen a single closed (decreasing) UAAL amortization period of 30 years from June 30, 2005, with 14 years remaining as of June 30, 2021. However, when the Plan has a surplus (UAAL is negative or assets are in excess of the actuarial accrued liability), model practice is to amortize the surplus over a single open (non-decreasing) period of 30 years. Accordingly, as part of the June 30, 2021 valuation we are recommending surplus amortization using a single open 30-year period.

Normal cost less amortization of the negative UAAL (Surplus) using the following basis:

- 1. 30-year amortization beginning June 30, 2021 and
- 2. UAAL (Surplus) amortized as a level percent of payroll.

Туре	Date Established	Initial Amount	Initial Period	Outstanding Balance	Years Remaining	Amortization Amount*
Total UAAL (Surplus)	06/30/2021	\$(29,634,701)	30	\$(29,634,701)	30	\$(1,580,620)

<sup>\*</sup>Level percent of payroll

#### D. Determination of Actuarially Determined Contribution (ADC)

As described on the previous page, the calculation of the ADC consists of adding the Normal Cost of the plan to an amortization payment. The resulting sum is then adjusted with interest assuming that the annual cost will be contributed throughout the fiscal year.

The primary reasons behind the decrease in the ADC from the prior valuation were better than expected investment experience after smoothing, and medical premiums for 2021-2022 lower than projected in the prior valuation.

#### Total Plan

	ADC Determined as of			
	June 3	0, 2021	June 30, 2020	
	Amount	Percentage of Compensation	Amount	Percentage of Compensation
1. Normal cost	\$49,615,449	4.02%	\$48,226,344	3.98%
2. Amortization of the UAAL (Surplus)	(1,580,620)	(0.13%)	12,837,468	1.06%
3. Adjustment for timing	1,652,784	0.14%	<u>2,101,087</u>	<u>0.17%</u>
4. Total Actuarially Determined Contribution (payable throughout the year)	\$49,687,613	4.03%	\$63,164,899	5.21%
5. Total Projected Compensation	\$1,233,265,179		\$1,211,798,340	

Tier 1

		ADC Determined as of			
	June 3	0, 2021	June 30, 2020		
	Amount	Percentage of Compensation	Amount	Percentage of Compensation	
Normal cost	\$31,182,620	4.17%	\$32,530,645	4.16%	
Amortization of the UAAL (Surplus)	(949,102)	(0.13%)	8,279,761	1.06%	
Adjustment for timing	1,040,276	0.14%	1,404,207	<u>0.18%</u>	
Total Actuarially Determined Contribution (payable throughout the year)	\$31,273,794	4.18%	\$42,214,613	5.40%	
Total Projected Compensation	\$747,482,480		\$781,826,000		
	Amortization of the UAAL (Surplus)  Adjustment for timing  Total Actuarially Determined Contribution (payable throughout the year)	Normal cost \$31,182,620  Amortization of the UAAL (Surplus) (949,102)  Adjustment for timing 1,040,276  Total Actuarially Determined Contribution (payable throughout the year) \$31,273,794	June 30, 2021AmountPercentage of CompensationNormal cost\$31,182,6204.17%Amortization of the UAAL (Surplus)(949,102)(0.13%)Adjustment for timing1,040,2760.14%Total Actuarially Determined Contribution (payable throughout the year)\$31,273,7944.18%	June 30, 2021   June 30     Remount   Percentage of Compensation   Amount     Normal cost   \$31,182,620   4.17%   \$32,530,645     Amortization of the UAAL (Surplus)   (949,102)   (0.13%)   8,279,761     Adjustment for timing   1,040,276   0.14%   1,404,207     Total Actuarially Determined Contribution (payable throughout the year)   \$31,273,794   4.18%   \$42,214,613	

Tier 2

			ADC Determined as of			
		June 3	0, 2021	June 30, 2020		
		Amount	Percentage of Compensation	Amount	Percentage of Compensation	
1.	Normal cost	\$18,432,829	3.79%	\$15,695,699	3.65%	
2.	Amortization of the UAAL (Surplus)	(631,518)	(0.13%)	4,557,707	1.06%	
3.	Adjustment for timing	612,508	0.13%	<u>696,880</u>	<u>0.16%</u>	
4.	Total Actuarially Determined Contribution (payable throughout the year)	\$18,413,819	3.79%	\$20,950,286	4.87%	
5.	Total Projected Compensation	\$485,782,699		\$429,972,340		

## **E. Schedule of Employer Contributions**

Fiscal Year Ended June 30	Actuarially Determined Contributions <sup>1</sup>	Actual Contributions <sup>1, 2</sup>	Percentage Contributed
2017	\$93,920,143	\$91,023,926	96.92%
2018	85,339,091	95,918,712	112.40%
2019	80,850,687	102,631,460	126.94%
2020	95,375,489	110,444,724	115.80%
2021	63,164,899	110,261,019	174.56%
2022	49,687,613	Not Made Yet	N/A

<sup>&</sup>lt;sup>2</sup> Contributions were:

Fiscal Year	Contribution towards insurance premiums (A)	Contributions towards administrative expenses (B)	Total Department contributions (A) + (B)
2016-2017	\$90,310,419	\$713,507	\$91,023,926
2017-2018	95,233,622	685,090	95,918,712
2018-2019	101,594,970	1,036,490	102,631,460
2019-2020	109,401,181	1,043,543	110,444,724
2020-2021	109,282,435	978,584	110,261,019

<sup>&</sup>lt;sup>1</sup> Payable throughout the year.

### **F. Schedule of Funding Progress**

This schedule of funding progress presents multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b) - (a) / (c)]
06/30/2016	\$1,752,195,162	\$2,334,042,813	\$581,847,651	75.07%	\$928,888,680	62.64%
06/30/2017	1,898,136,791	2,347,483,631	449,346,840	80.86%	991,814,994	45.31%
06/30/2018	2,055,373,577	2,469,304,377	413,930,800	83.24%	1,073,554,608	38.56%
06/30/2019	2,196,487,396	2,683,446,018	486,958,622	81.85%	1,141,875,615	42.65%
06/30/2020	2,338,427,041	2,490,223,378	151,796,337	93.90%	1,211,798,340	12.53%
06/30/2021	2,598,916,515	2,569,281,814	(29,634,701)	101.15%	1,233,265,179	(2.40%)

# **Exhibit A: Summary of Participant Data**

#### Total Plan

Retired Members  Number¹  Average age of retirees  Number of spouses  Average age of spouses²	7,105	
Average age of retirees  Number of spouses  Average age of spouses <sup>2</sup>	7,105	
Number of spouses  Average age of spouses <sup>2</sup>		6,960
Average age of spouses <sup>2</sup>	72.6	72.7
	3,797	3,703
	71.1	62.9
Surviving Spouses		
Number <sup>1</sup>	1,327	1,361
Average age	81.0	81.2
Active Participants		
Number	10,605	10,778
Average age	46.7	46.7
Average years of qualifying service <sup>3</sup>	15.0	15.0
Average expected retirement age	63.3	63.3

<sup>&</sup>lt;sup>1</sup> A retiree or surviving spouse is only counted if receiving a medical and/or dental benefit.

The average spouse ages shown are based on records provided with actual spouse date of birth.

<sup>&</sup>lt;sup>3</sup> Differs from the service type shown (Service Credit) in the Retirement Plan valuation.

Tier 1

	June 30, 2021	June 30, 2020
Retired Members		
Number <sup>1</sup>	7,100	6,960
Average age of retirees	72.6	72.7
Number of spouses	3,797	3,703
Average age of spouses <sup>2</sup>	71.1	62.9
Surviving Spouses		
Number <sup>1</sup>	1,327	1,361
Average age	81.0	81.2
Active Participants		
Number	5,926	6,394
Average age	52.5	52.2
Average years of qualifying service <sup>3</sup>	22.2	22.0
Average expected retirement age	62.9	62.8

A retiree or surviving spouse is only counted if receiving a medical and/or dental benefit.
 The average spouse ages shown are based on records provided with actual spouse date of birth.

<sup>&</sup>lt;sup>3</sup> Differs from the service type shown (Service Credit) in the Retirement Plan valuation.

Tier 2

	June 30, 2021	June 30, 2020
Retired Members		
Number <sup>1</sup>	5	0
Average age of retirees	62.2	N/A
Number of spouses	0	N/A
Average age of spouses	N/A	N/A
Surviving Spouses		
Number <sup>1</sup>	0	0
Average age	N/A	N/A
Active Participants		
Number	4,679	4,384
Average age	39.4	38.8
Average years of qualifying service <sup>2</sup>	5.9	4.9
Average expected retirement age	63.9	64.0

A retiree or surviving spouse is only counted if receiving a medical and/or dental benefit.
 Differs from the service type shown (Service Credit) in the Retirement Plan valuation.

### **Exhibit B: Cash Flow Projections**

Initially, the ADC generally exceeds the current pay-as-you-go ("paygo") cost of an OPEB plan. Over time the paygo cost will tend to grow and becomes close to and may exceed the ADC, which is expected in a well-funded and more mature plan such as this one. The following table projects the paygo cost over the next ten years.

Year Ending -	Proje	cted Number of Reti	rees <sup>1</sup>	Proj	ected Benefit Paym	ents
June 30	Current	Future	Total	Current	Future	Total
2022	12,229	650	12,879	\$110,710,469	\$6,411,213	\$117,121,682
2023	11,845	1,217	13,062	113,838,185	12,820,185	126,658,370
2024	11,458	1,766	13,224	116,661,233	19,598,309	136,259,542
2025	11,075	2,275	13,350	118,864,084	26,313,304	145,177,388
2026	10,693	2,762	13,455	120,265,559	33,200,634	153,466,193
2027	10,307	3,222	13,529	121,468,657	39,835,480	161,304,137
2028	9,924	3,652	13,576	122,311,525	46,456,765	168,768,290
2029	9,541	4,069	13,610	122,715,136	52,899,541	175,614,677
2030	9,158	4,498	13,656	122,896,322	60,057,261	182,953,583
2031	8,777	4,931	13,708	122,764,167	67,260,033	190,024,200

<sup>&</sup>lt;sup>1</sup> Includes spouses of retirees.

#### **Exhibit C: Determination of Actuarial Value of Assets**

To minimize volatility in the calculation of the Actuarially Determined Contribution, the Employer may choose to smooth out shortterm changes in the market value of plan assets by use of an actuarial value of assets method. City of Los Angeles Department of Water and Power adopted the following method that smooths such changes over a five-year period.

1.	Market value of assets (for Retirement and Health Subsidy Benefits)					
2.	Calculation of unrecognized return <sup>1</sup>	Original Amount	Percent Deferred	Unrecognized Amount		
	a. Year ended June 30, 2021	\$452,940,969	80%	362,352,773		
	b. Year ended June 30, 2020	(72,596,502)	60%	(43,557,901)		
	c. Year ended June 30, 2019	(16,517,875)	40%	(6,607,150)		
	d. Year ended June 30, 2017	35,065,044	20%	7,013,009		
	e. Year ended June 30, 2016	96,241,076	0%	0		
3.	Total unrecognized return <sup>2</sup>				<u>\$319,200,731</u>	
4.	Actuarial value: (1) - (3)				\$2,598,916,515	
5.	Actuarial value as a percentage of market value: (4) ÷ (1)				89.06%	

<sup>&</sup>lt;sup>2</sup> Deferred return as of June 30, 2021 recognized in each of the next 4 years:

(a) Amount recognized during 2021-2022	\$79,778,327
(b) Amount recognized during 2022-2023	72,765,319
(c) Amount recognized during 2023-2024	76,068,892
(d) Amount recognized during 2024-2025	<u>90,588,193</u>
(e) Total	\$319,200,731

<sup>&</sup>lt;sup>1</sup> Total return minus expected return on a market value basis.

### **Exhibit I: Summary of Supplementary Information**

Valuation date	June 30, 2021
Actuarial cost method	Entry age, level percent of pay
Amortization method	30-year amortization open, level percent of pay
Remaining amortization period	Market Value of Assets (MVA) less unrecognized returns. Unrecognized returns are equal to the difference between the actual market return and the expected return on the market value, and are recognized over a five-year period
Actuarial assumptions:	
Investment rate of return	7.00%
Inflation rate	2.75%
Projected salary increases	3.25%, plus merit and promotional increases, shown in Exhibit II.
Non-Medicare cost trend rate	7.50%, graded down to an ultimate rate of 4.50% over 12 years
Medicare cost trend rate <sup>1</sup>	6.50%, graded down to an ultimate rate of 4.50% over 8 years
Dental trend rate	4.00%
Medicare Part B subsidy costs trend rate	4.50%

Plan membership — Excluding retirees and beneficiaries not receiving subsidy:	June 30, 2021	June 30, 2020
Current retirees <sup>1</sup> and beneficiaries receiving dental and/or medical subsidy	8,432	8,321
Current active participants	<u>10,605</u>	<u>10,778</u>
Total	19,037	19,099

<sup>&</sup>lt;sup>1</sup> Excludes 3,797 and 3,703 spouses from the June 30, 2021 and 2020 valuations, respectively.

#### **Exhibit II: Actuarial Assumptions and Actuarial Cost Method**

Rationale for Assumptions	The information and analysis used in selecting each assumption that has a significant effect on this actuarial valuation is shown in the July 1, 2015 through June 30, 2018 Actuarial Experience Study dated June 12, 2019. Following the most recent experience study, the Retirement Board adopted amount-weighted tables for the Retirement Plan. For the OPEB Plan, we will continue to use headcount-weighted mortality tables, as benefits do not vary by salary as in the OPEB Plan. The information and analysis used in selecting health-related assumptions is shown in our assumptions letter dated September 20, 2021. Unless otherwise noted, all actuarial assumptions and methods shown below apply to both Tier 1 and Tier 2 employees.				
Economic Assumptions					
Net Investment Return	7.00%, <sup>1</sup> net of investment expenses.				
Administration Expenses	No administrative expenses were valued separately from	m the claim costs.			
Salary Increases:	The annual rate of compensation Increase includes inflatincreases of 0.50% per year, plus the following merit and Years of Service				
		<u> </u>			
	Less than 1	7.00			
	1 – 2	7.00			
	2 – 3	6.50			
	2 – 3 3 – 4	6.50 5.25			
	2 - 3 3 - 4 4 - 5	6.50 5.25 3.75			
	2 - 3 3 - 4 4 - 5 5 - 6	6.50 5.25 3.75 2.75			
	2-3 3-4 4-5 5-6 6-7	6.50 5.25 3.75 2.75 2.25			
	2-3 3-4 4-5 5-6 6-7 7-8	6.50 5.25 3.75 2.75 2.25 2.00			
	2-3 3-4 4-5 5-6 6-7 7-8 8-9	6.50 5.25 3.75 2.75 2.25 2.00 1.70			
	2-3 3-4 4-5 5-6 6-7 7-8	6.50 5.25 3.75 2.75 2.25 2.00			
	2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10	6.50 5.25 3.75 2.75 2.25 2.00 1.70 1.60			
	2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11	6.50 5.25 3.75 2.75 2.25 2.00 1.70 1.60 1.50			
	2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14	6.50 5.25 3.75 2.75 2.25 2.00 1.70 1.60 1.50 1.45 1.40 1.35			
	2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13	6.50 5.25 3.75 2.75 2.25 2.00 1.70 1.60 1.50 1.45			

<sup>1</sup> We were notified of a new target asset allocation adopted by the Board of Retirement on December 9, 2020. We have reviewed the investment rate of return assumption based on the new target asset allocation together with recent capital market assumptions and concluded that as of June 30, 2021, 7.00% continues to be a reasonable assumption.

<b>Demographic Assumptions</b>					
Post-Retirement Mortality	Service Retirement and D	isability Retiremen	t		
Rates	Pub-2010 General He tables for males and t with the two-dimension  Beneficiaries	emales) times 105	% for males and 1	00% for females, բ	tality Table (separate projected generationally
	Pub-2010 General Healthy Retiree Headcount-Weighted Above-Median Mortality Table (separate)				
	tables for males and females), projected generationally with the two-dimensional mortality improvement scale MP-2018.				
	The Pub-2010 mortality to				
Pre-Retirement Mortality	as of the measurement day projection to reflect future  Pub-2010 General Emplo	mortality improver	nent between the reighted Above-Med	measurement date	e and those years. le (separate tables for
Pre-Retirement Mortality	projection to reflect future	mortality improver	nent between the reighted Above-Medy with the two-dime	measurement date	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver	nent between the reighted Above-Medy with the two-dime	measurement date dian Mortality Tabl ensional mortality i	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationall	nent between the reighted Above-Med y with the two-dime Rate	measurement date dian Mortality Tabl ensional mortality i e (%) Female	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationall	nent between the reighted Above-Medy with the two-dime	measurement date dian Mortality Tabl ensional mortality i e (%)	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationall  Age 25	nent between the reighted Above-Med y with the two-dimer Rate Male 0.027	measurement date dian Mortality Tabl ensional mortality i e (%) Female 0.011	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationall  Age  25 30	nent between the reighted Above-Med with the two-dimer Rate Male 0.027 0.035	measurement date dian Mortality Tabl ensional mortality i e (%)  Female  0.011 0.016	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationall  Age 25 30 35	nent between the reighted Above-Med y with the two-dimer Rate Male 0.027 0.035 0.046	measurement date dian Mortality Tabl ensional mortality i  e (%)  Female  0.011  0.016  0.024	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationally  Age  25 30 35 40 45 50	ment between the reighted Above-Med with the two-dimer series Male  0.027 0.035 0.046 0.063 0.091 0.137	measurement date dian Mortality Tabl ensional mortality i  e (%)  Female  0.011 0.016 0.024 0.036 0.054 0.082	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationally  Age  25 30 35 40 45 50 55	Rate Male 0.027 0.035 0.046 0.063 0.091 0.137 0.203	reasurement date dian Mortality Table ensional mortality is e (%)  Female 0.011 0.016 0.024 0.036 0.054 0.082 0.120	e and those years. le (separate tables for
Pre-Retirement Mortality	Pub-2010 General Emplo males and females), proje	mortality improver yee Headcount-We ected generationally  Age  25 30 35 40 45 50	ment between the reighted Above-Med with the two-dimer series Male  0.027 0.035 0.046 0.063 0.091 0.137	measurement date dian Mortality Tabl ensional mortality i  e (%)  Female  0.011 0.016 0.024 0.036 0.054 0.082	e and those years. le (separate tables for

isability Incidence Rate	Di	sability Incide	nce
		Ra	ite (%)
	Age	Male	Female
	25	0.006	0.000
	30	0.012	0.006
	35	0.012	0.036
	40	0.018	0.072
	45	0.030	0.102
	50	0.054	0.138
	55	0.126	0.168
ermination Rates	1	Total Termination	on
	Years of Serv	rice	Rate (%)
	Less than 1	1	10.00
	1 – 2		
	1 4		5.25
	2-3		5.25 3.75
	2 – 3 3 – 4 4 – 5		3.75
	2 - 3 3 - 4 4 - 5 5 - 6		3.75 3.50 2.50 2.00
	2-3 3-4 4-5 5-6 6-7		3.75 3.50 2.50 2.00 1.50
	2-3 3-4 4-5 5-6 6-7 7-8		3.75 3.50 2.50 2.00 1.50
	2-3 3-4 4-5 5-6 6-7 7-8 8-9		3.75 3.50 2.50 2.00 1.50 1.50
	2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10		3.75 3.50 2.50 2.00 1.50 1.50 1.50
	2-3 3-4 4-5 5-6 6-7 7-8 8-9		3.75 3.50 2.50 2.00 1.50 1.50

tirement Rates		Rate (%)				
		Tie	r 1	Tie	er 2	
	Age	Under 30 Years of Service	30 or More Years of Service	Under 30 Years of Service	30 or More Years of Service	
	50	0.00	1.00	0.00	0.00	
	51	0.00	0.00	0.00	0.00	
	52	0.00	0.00	0.00	0.00	
	53	0.00	0.00	0.00	0.00	
	54	0.00	0.00	0.00	0.00	
	55	4.25	27.00	0.00	25.00	
	56	2.00	20.00	0.00	14.00	
	57	2.50	17.50	0.00	13.00	
	58	3.50	17.50	0.00	13.00	
	59	3.50	17.50	0.00	13.00	
	60	5.50	22.00	5.50	17.50	
	61	6.50	22.00	3.50	10.00	
	62	7.00	22.00	2.50	10.00	
	63	8.00	25.00	20.00	25.00	
	64	8.50	27.00	12.00	25.00	
	65	11.50	30.00	11.00	28.00	
	66	12.00	30.00	11.00	28.00	
	67	12.50	30.00	12.00	28.00	
	68	13.00	30.00	12.50	28.00	
	69	17.00	30.00	15.00	28.00	
	70	22.00	25.00	50.00	50.00	
	71	22.00	25.00	50.00	50.00	
	72	22.00	25.00	50.00	50.00	
	73	22.00	25.00	50.00	50.00	
	74	22.00	25.00	50.00	50.00	
	75 & Over	100.00	100.00	100.00	100.00	

Unknown Data for Members	Same as those exhibited by members are similar known characteristics. If not specified, members are assumed to be male.
Membership Data Adjustments	Membership data as of March 31 provided by the Department for use in this valuation has been adjusted to June 30 by adding three months of age and, for active employees, three months of service.
Percent Married/Domestic Partner	Actives at the time of retirement: 75% of male employees and 40% of female employees assumed to be married with coverage for spouse.  Retirees at the time of retirement: Actual data included in census.
Age of Spouse	Husbands are assumed to be 2 years older than female members. Wives are assumed to be 2 years younger than male members.
Future Benefit Accruals	1.0 year of service per year.
Additional Service Accrual	Tier 1 members are assumed to purchase an additional 0.07 years of service per year.  Tier 2 members are assumed to purchase an additional 0.02 years of service per year.  These service purchases exclude those priced at full actuarial cost.
Participation	95% of the current actives are assumed to enroll in medical coverage at retirement. 95% of the current actives are assumed to enroll in dental coverage at retirement.
Asset Valuation Method:	Any actual investment returns that are above or below the annual return assumed in the valuation are recognized over 5-year periods.
Plan Design:	Development of plan liabilities was based on the substantive plan of benefits in effect as described in Exhibit III.
Implicit Subsidy	None. Premiums paid by the retirees reflect rates underwritten for retirees only.

#### Per Capita Cost Development

The assumed per capita claims cost by age (and other demographic factors such as sex and family status) is the future per capita cost of providing postretirement health care benefits at each age. The factors on page 26 are applied to the medical premiums shown on pages 25 and 26 to calculate the age-based costs.

#### Dental Annual Subsidy

Where known, actual subsidies provided in the data were used. For periods where subsidy is unknown, the average monthly retiree subsidies effective July 1, 2021 were assumed as shown below:

Dental Premium Subsidy (For Single and Multi-Party, Tiers 1 and 2)

Carrier	Election Percent (%)	Single Party Premium
United Concordia DHMO	15	\$18.88
United Concordia PPO	65	37.58
IBEW Local 18	20	116.46

The maximum monthly dental subsidy is \$37.58, except for Local 18 with a maximum of \$116.46. Eligible spouses and survivors are not eligible for DWP dental subsidy.

#### Medical Annual Subsidy

For retirees in pay status, we use the relevant premiums provided on participant records. In cases where the carrier elections are unknown, we will assume the participant elects a carrier in the same proportion as current retirees in that group. The table below shows the assumed distribution of medical insurance carriers for retirees and the monthly premiums as of July 1, 2021.

Under Age 65

Assumed	Single Party	Participant +1
Election Percent	Premium	Both Under 65
45.0	\$935.44	\$1,870.87
10.0	1,476.67	2,953.42
30.0	1,533.21	1,801.21
5.0	1,807.64	3,730.35
5.0	1,721.93	2,170.96
5.0	997.48	1,994.99
	45.0 10.0 30.0 5.0 5.0	Election Percent         Premium           45.0         \$935.44           10.0         1,476.67           30.0         1,533.21           5.0         1,807.64           5.0         1,721.93

#### **Per Capita Cost Development** (continued)

Age 65 and Older					
Carrier	Assumed Election Percent	Single Party Premium	Participant +1 Both Under 65		
Kaiser Senior Advantage	55.0	\$325.75	\$651.50		
United Health Care Option A	25.0	491.05	982.10		
United Health Care Medicare Advantage	10.0	452.52	905.04		
Senior Dimensions	2.5	265.63	531.26		
United Health Care Option B	2.5	410.57	821.14		
Blue Cross HMO	5.0	1,000.08	1,570.85		
Medicare Part B	100.0	148.50	297.00		

The per capita costs were then adjusted for age and gender using the below factors:

#### Applied to Per Capita Costs for under Age 65

	Ret	Retiree		ouse
Age	Male	Female	Male	Female
55	0.9040	0.9333	0.7115	0.8058
60	1.0736	1.0060	0.9524	0.9346
64	1.2317	1.0672	1.2023	1.0519
65	0.9121	0.7753	0.9121	0.7753
70	1.0571	0.8355	1.0571	0.8355
75	1.1392	0.8993	1.1392	0.8993
80+	1.2268	0.9696	1.2268	0.9696

#### **Health Care Cost Subsidy Trend** Rates:

Health care trend measures the anticipated overall rate at which health plan costs are expected to increase in future years. Trend rates are used to increase the premiums and the stated subsidies into the future. For example, the expected maximum monthly medical subsidy for a Tier 1 retiree with 30 years of service in the year July 1, 2022 through June 30, 2023 (set equal to the two-party, under-65 Kaiser premium) would be determined with the following formula:

 $[\$1,870.87 \times (1 + 7.50\%)] = \$2,011.19$ 

	Rates (%)			
Year Ending June 30	Non-Medicare	Medicare	Medicare Part B	Dental
2022	7.50	6.50	4.50	4.00
2023	7.25	6.25	4.50	4.00
2024	7.00	6.00	4.50	4.00
2025	6.75	5.75	4.50	4.00
2026	6.50	5.50	4.50	4.00
2027	6.25	5.25	4.50	4.00
2028	6.00	5.00	4.50	4.00
2029	5.75	4.75	4.50	4.00
2030	5.50	4.50	4.50	4.00
2031	5.25	4.50	4.50	4.00
2032	5.00	4.50	4.50	4.00
2033	4.75	4.50	4.50	4.00
2034 & Later	4.50	4.50	4.50	4.00

	The valuation does not reflect the potential impact of any future changes due to prior or pending legislations.
Assumption Changes Since Prior Valuation:	The following assumptions were changed since the prior valuation:  Updated per capita costs.  Updated medical premium and subsidy trend.  Updated non-Medicare medical election

### **Exhibit III: Summary of Plan**

This exhibit summarizes the major benefit provisions as included in the valuation. To the best of our knowledge, the summary represents the substantive plans as of the measurement date. It is not intended to be, nor should it be interpreted as, a complete statement of all benefit provisions.

Eligibility	A retiree who was an employee of DWP immediately prior to retirement and is receiving a monthly allowance under DWP's retirement plan is eligible for the subsidy.
Tier 1	All members hired before January 1, 2014.
Tier 2	All members hired on or after January 1, 2014.
Age & Service Requirement:	Eligible for minimum pension from the Retirement Plan as follows:
Tier 1	Age 60 with 5 years of Department service; or
	Age 55 with 10 years of Department service in the last 12 years; or
	Any age with 30 years of Department service; or
	Receiving permanent total disability benefits from the Plan.
	Note: To be eligible, the employee must have worked or been paid disability four of the last five years immediately preceding eligibility to retire, or while eligible to retire.
Tier 2	Age 60 with 5 years of continuous Department Service with the Plan immediately prior to reaching eligibility; or Age 60 with 10 years of Qualifying service; or
	Any age with 30 years of Qualifying service; or
	Receiving permanent total disability benefits from the Plan.

#### **Benefit Types:**

The maximum monthly dental subsidy (for Tiers 1 and 2) is \$37.58, except for Local 18 with a maximum of \$116.46.

The DWP medical premium subsidy is computed by a formula related to years of qualifying service and attained age at retirement. The actual years of qualifying service are rounded either up or down to the nearest integer value. The subsidy limit is applied to the combined medical carrier and Medicare Part B premium, but not the dental

premium.

Tier 1

**Years of Service** 

Age at Retirement	10	15	20	25	30
55	\$374	\$748	\$1,123	\$1,497	\$1,871
56	381	762	1,143	1,524	1,871
57	388	776	1,163	1,551	1,871
58	395	789	1,184	1,578	1,871
59	401	803	1,204	1,606	1,871
60	408	816	1,224	1,633	1,871
61	415	830	1,245	1,660	1,871
62	422	844	1,265	1,687	1,871
63	429	857	1,286	1,714	1,871
64	435	871	1,306	1,742	1,871
65	442	884	1,327	1,769	1,871

Tier 2

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Age at Retirement	10	15	20	25	30
55	\$187	\$374	\$561	\$748	\$935
56	190	381	571	762	935
57	194	388	582	776	935
58	197	395	592	789	935
59	201	401	602	803	935
60	204	408	612	816	935
61	207	415	623	830	935
62	211	422	633	844	935
63	214	429	643	857	935
64	218	435	653	871	935
65	221	442	663	884	935

As shown, the maximum possible subsidy is \$1,871 and \$935 for Tier 1 and 2, respectively. Subsidies may increase until age at retirement reaches 80

Dependent Coverage:	Dependent spouses are eligible for the DWP medical subsidy coverage. Surviving spouses are eligible to receive the DWP medical subsidy that would have been given to the deceased employee or retiree if still living, and only if the surviving spouse was enrolled in the deceased members' plan at the time of the members' death. Surviving spouses and dependent spouses are not eligible for the dental subsidy.
Retiree Contributions:	To the extent the DWP subsidies are less than the medical or dental premiums, the retiree contributes the cost difference.
Changes in Plan Provisions:	None.

#### **Exhibit IV: Definitions of Terms**

The following list defines certain technical terms for the convenience of the reader:

Assumptions or Actuarial Assumptions	The estimates on which the cost of the Plan is calculated including:
	Investment return — the rate of investment yield that the Plan will earn over the long-term future;
	Mortality rates — the death rates of employees and pensioners; life expectancy is based on these rates;
	Retirement rates — the rate or probability of retirement at a given age;
	<b>Turnover rates</b> — the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.
Actuarial Present Value of Total Projected Benefits	Present value of all future benefit payments for current retirees and active employees taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions.
Normal Cost	The amount of contributions required to fund the benefit allocated to the current year of service.
Actuarial Accrued Liability for Actives	The equivalent of the accumulated normal costs allocated to the years before the valuation date.
Actuarial Accrued Liability for Retirees	The single sum value of lifetime benefits to existing retirees. This sum takes account of life expectancies appropriate to the ages of the retirees and of the interest which the sum is expected to earn before it is entirely paid out in benefits.
Actuarial Value of Assets (AVA)	The value of assets used by the actuary in the valution. These may be at market value or some other method used to smooth variations in market value from one valuation to the next.
Funded Ratio	The ratio AVA/AAL.
Unfunded Actuarial Accrued Liability (UAAL):	The extent to which the actuarial accrued liability of the Plan exceeds the assets of the Plan. There is a wide range of approaches to paying off the unfunded actuarial accrued liability, from meeting the interest accrual only to amortizing it over a specific period of time.
Amortization of the Unfunded Actuarial Accrued Liability	Payments made over a period of years equal in value to the Plan's unfunded actuarial accrued liability.
Investment Return (discount rate)	The rate of earnings of the Plan from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one year to the next. If the plan is funded on a pay-as-you-go basis, the discount rate is tied to the expected rate of return on day-to-day employer funds.
Covered Payroll	Annual reported salaries for all active participants on the valuation date.

ADC as a Percentage of Covered Payroll	The ratio of the actuarially determined contribution to covered payroll.
Health Care Cost Trend Rates	The annual rate of increase in net claims costs per individual benefiting from the Plan.
Actuarially Determined Contribution (ADC)	The ADC is equal to the sum of the normal cost and the amortization of the unfunded actuarial accrued liability.
Employer Contributions	An employer has contributed to an OPEB plan if the employer has (a) provided benefits directly to retired plan members or their beneficiaries, (b) paid insurance premiums to insure the payment of benefits, or (c) irrevocably transferred assets to a qualifying trust, or equivalent arrangement, in which plan assets are dedicated to providing benefits to retirees and their beneficiaries in accordance with the terms of the plan and are legally protected from creditors of the employer(s) or plan administrator

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