

MOUNTAIN VALLEY LIBRARY SYSTEM

[HTTPS://NORTHNETLIBS.ORG/ABOUT-NLS/MVLS/](https://northnetlibs.org/about-nls/mvls/)

Administrative Council Meeting

May 28, 2026

10:00 a.m.

Join Zoom Meeting

<https://us02web.zoom.us/j/86098520843?pwd=hGK21J3JN24gNUbzTzswsLQbKr8EtZ.1>

Meeting ID: 860 9852 0843 Passcode: 778441 Phone: +1 (669) 444 9171

1. Call to Order Gruneisen, Chair
2. Welcome and Roll Call Gruneisen
3. Public Comment - Individuals are allowed three minutes, groups in attendance five minutes. It is System policy to refer matters raised in this forum to staff for further investigation or action if appropriate. The Brown Act prohibits the Council from discussing or acting on any matter not agendized pursuant to State law.)
4. Approval of Consent Calendar (**ACTION ITEM**) Gruneisen
 - a. Approval of Agenda
 - b. Approval of Minutes of Administrative Council Meeting June 12, 2025 Attachment 1, pg. 4
 - c. Approve Renewal of Courier Contract Attachment 2, pg. 7
5. Nominations and Election of FY 2026-27 Officers (**ACTION ITEM**) Gruneisen
6. Approval of MVLS CalPERS UAL Payment for FY 2026-27 (**ACTION ITEM**) Yon Attachment 3, pg. 9
7. Approval of FY 2026-27 Budget (**ACTION ITEM**) Yon Attachment 4, pg. 11
8. Announcements
9. Adjournment

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Brown Act: This meeting abides by Cal. Gov't Code § 54953.

Cal. Gov't Code § 54953(b)(1) "Notwithstanding any other provision of law, the legislative body of a local agency may use teleconferencing for the benefit of the public and the legislative body of a local agency in connection with any meeting or proceeding authorized by law. The teleconferenced meeting or proceeding shall comply with all otherwise applicable requirements of this chapter and all otherwise applicable provisions of law relating to a specific type of meeting or proceeding."

Cal. Gov't Code § 54953(j)(6) A "teleconference" is "a meeting of a legislative body, the members of which are in different locations, connected by electronic means, through either audio or video, or both."

Gov't Code § 54953 (b)(2) "Teleconferencing, as authorized by this section, may be used for all purposes in connection with any meeting within the subject matter jurisdiction of the legislative body. If the legislative body of a local agency elects to use teleconferencing, the legislative body of a local agency shall comply with all of the following:

(A) All votes taken during a teleconferenced meeting shall be by rollcall.

(B) The teleconferenced meetings shall be conducted in a manner that protects the statutory and constitutional rights of the parties or the public appearing before the legislative body of a local agency.

(C) The legislative body shall give notice of the meeting and post agendas as otherwise required by this chapter.

(D) The legislative body shall allow members of the public to access the meeting, and the agenda shall provide an opportunity for members of the public to address the legislative body directly pursuant to Section 54954.3."

Gov't Code § 54953 (b)(3) "If the legislative body of a local agency elects to use teleconferencing, it shall post agendas at all teleconference locations. Each teleconference location shall be identified in the notice and agenda of the meeting or proceeding, and each teleconference location shall be accessible to the public. During the teleconference, at least a quorum of the members of the legislative body shall participate from locations within the boundaries of the territory over which the local agency exercises jurisdiction, except as provided in subdivisions (d) and (e)."

In accordance with 54953.8(b)(8), please contact NLAdmin@plpinfo.org for requesting a reasonable accommodation for individuals with disabilities, consistent with the federal Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132).

MOUNTAIN VALLEY LIBRARY SYSTEM

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Meeting Locations

El Dorado County Library, 345 Fair Lane, Placerville, CA 95667
Folsom Public Library, 411 Stafford Street, Folsom, CA 95630
Lincoln Public Library, 485 Twelve Bridges Drive, Lincoln, CA 95648
Mono County Library, 400 Sierra Park Road, Mammoth Lakes, CA 93546
Nevada County Library, 980 Helling Way, Nevada City, CA 95959
Placer County Library, 2521 Warren Drive, Suite A, Rocklin, CA 95677-2179
Roseville Public Library, 316 Vernon Street, Suite 400, Roseville CA 95678
Sacramento Co. Public Law Library, 609 9th Street, Sacramento, CA 95814
Sacramento Public Library, 828 I Street, Sacramento, CA 95814
Sutter County Library, 750 Forbes Avenue, Yuba City, CA 95991
Woodland Public Library, 250 First Street, Woodland, CA 95695
Yolo County Library, 226 Buckeye, Woodland, CA 95695
Yuba County Library, 915 8th Street, Suite 113, Marysville, CA 95901
NLS Administrative Office, 32 West 25th Avenue, Suite 201, San Mateo, CA 94403

MOUNTAIN VALLEY LIBRARY SYSTEM[HTTPS://NORTHNETLIBS.ORG/ABOUT-NLS/MVLS/](https://northnetlibs.org/about-nls/mvls/)

DRAFT MINUTES
MOUNTAIN VALLEY LIBRARY SYSTEM
Administrative Council Meeting
June 12, 2025

1. **MVLS Vice Chair, Gruneisen, called the meeting to order at 1:03 p.m.** (Chair Bryce Lovell was unable to attend the meeting.)
2. **Roll Call:**

Present	Absent	MEMBER LIBRARY	Representative
x		Alpine County Library	Rita Lovell
x		Colusa County Library	Stacey Costello
	x	El Dorado County Library	Bryce Lovell
x		Folsom Public Library	Thomas Gruneisen
	x	Lincoln Public Library	Kathryn Hunt
x		Mono County Free Library	Joseph Bopp
	x	Nevada County Library	Nick Wilczek
	x	Placer County Library	Mary George
x		Roseville Public Library	Narinder Sufi
x		Sacramento Co. Public Law Lib.	Pete Rooney
x		Sacramento Public Library	Peter Coyl
x		Sutter County Library	Ayla Elkins
	x	Woodland Public Library	Greta Galindo
x		Yolo County Library	Diana Lopez
x		Yuba County Library	Sandeep Sidhu

Also present from Pacific Library Partnership were Carol Frost, Andrew Yon and Jacquie Brinkley.

3. **No Public in attendance.**

4. **Approval of Consent Calendar**

Motion to approve the Consent Items.

Coyl moved; Lopez seconded. Vote taken by roll call, all votes in favor, motion passed unanimously.

5. **Nominations and Election of FY 2025-26 Officers**

Rooney volunteered to assume Vice Chair position. Gruneisen volunteered to move from Vice Chair to Chair position.

Motion to approve Gruneisen as Chair and Rooney as Vice Chair for FY 2025-26. Coyl moved; Rita Lovell seconded. Vote taken by roll call, all votes in favor, motion passed unanimously.

6. Recommendation and Approval of Courier Contract

Brinkley reviewed memo regarding the Request for Proposal issued by NLS on behalf of MVLS for a new courier contract, as the current contract will expire June 30, 2025. Five proposals were received and reviewed by Coyl, Gruneisen and Brinkley with AmTran and Modern Express scoring the highest.

Motion to award the courier contract to AmTran based on proposal score and competitive quote.

Sufi asked if reviewers had made recommendations on any vendor. Coyl reported that as a reviewer, he only provided an independent score based on his reading of the proposals and that no recommendation was asked of him. Gruneisen concurred with Coyl and noted that he felt only the two vendors with highest scores were viable contenders and that only AmTran provided a complete proposal that demonstrated desired experience and familiarity with MVLS.

Costello moved; Coyl seconded. Vote taken by roll call with three abstentions (Alpine County, Sacramento Public Law Library and Yuba County); motion passed.

7. Approval of the MVLS CalPERS UAL Payment for FY 2025-26

Yon reviewed the MVLS CalPERS Unfunded Accrued Liability statement and noted that at their January 2025 meeting, MVLS Council approved to continue with annual payments. Recommendation that MVLS determine if they want to obtain the pre-payment discount for FY 2025-26 with payment due to CalPERS by July 31.

Coyl asked about the GASB fee of \$350. Yon explained that this is the CalPERS report filing fee and that CalPERS uses the naming of GASB.

Gruneisen asked for clarification on the Unfunded Accrued Liability and to understand that this was not a plan termination payment. Yon verified this and noted that MVLS would need to pay close to \$1 million to terminate the plan.

Yon stated that NLS would invoice members near June 1 and that payments would be required by July 21 in order to pay CalPERS before July 31.

Elkins asked how the cost share for CalPERS payments is allocated. Yon referred to the cost share chart and noted that MVLS had previously approved the cost share allocation formula for current and future payments.

Motion to approve NLS to invoice MVLS member libraries for the FY 2025-26 CalPERS UAL Payment based on cost share allocation, and that members will pay Invoice by July 21 in order to obtain the prepayment discount.

Coyl Moved; Sufi seconded. Vote taken by roll call with two abstentions (Colusa County and Sacramento Public Law Library); motion passed.

8. Approval of the FY 2025-26 Budget

Yon presented the FY 2025-26 MVLS budget, noting that the proposed budget included the prepayment discount for the required CalPERS payment.

Sufi requested that CalPERS Invoices be emailed by NLS.

Gruneisen asked for confirmation of the MVLS budget and CalPERS unfunded liability balance. Yon confirmed the accounting.

Motion to approve the MVLS FY 2025-26 Budget.

Rooney moved; Lopez seconded. Vote taken by roll call, all votes in favor, motion passed unanimously.

9. Announcements

Gruneisen extended his compliments to Sacramento Public Library for creating and coordinating the Mentorship Program. Gruneisen has had a positive experience as a mentor.

Lopez announced that Yolo County Library will be posting announcements soon for open positions.

Coyl announced that Sacramento Public Library will be hiring a Deputy Director and a Chief HR Officer.

10. Meeting adjourned at 1:31 p.m.

MOUNTAIN VALLEY LIBRARY SYSTEM

[HTTPS://NORTHNETLIBS.ORG/ABOUT-NLS/MVLS/](https://northnetlibs.org/about-nls/mvls/)

To: MVLS Administrative Council
From: Jacquie Brinkley, NLS System Coordinator
Subject: Am-Tran Courier Contract – 1st Option Year Renewal
Date: May 28, 2026

Background

MVLS executed a five-year contract with Am-Tran for courier services for July 1, 2025 through June 30, 2030, with four years of one-year options to renew, for a total of five years.

The contract states that an annual applicable CPI increase will be applied to the contract, to be agreed upon by both parties. CPI should be based on the San Francisco-Oakland-San Jose Index for All Urban Consumers published by the Bureau of Labor Statistics of US Labor Dept. The change in CPI for All Urban Consumers will be for the month of April preceding the fiscal year. The CPI increase shall not exceed 3% annually. Negotiated contract extensions without formal competition is an NLS prerogative, not a contractual right.

FY2026-27 Renewal Agreement

A 3% CPI increase based on the contractual CPI Index maximum will be added July 1, 2026, as a result of a 3.8 % CPI index for the San Francisco-Oakland-San Jose Index for All Urban Consumers for the month of April. The contract total for **FY 2026-27 is \$66,234**, which excludes costs for gas surcharges. The attached FY 2026-27 Mountain Valley Library System Delivery Schedule shall supersede the previous version.

Recommendation

It is recommended that the MVLS Board of Directors approve the 1st Option Year renewal of the contract with a 3% CPI adjustment from **July 1, 2026 through June 30, 2027**, for a total of **\$66,234**.

The MVLS libraries will utilize some of their CLSA funds to offset courier costs.

MOUNTAIN VALLEY LIBRARY SYSTEM DELIVERY SCHEDULE

Delivery Schedule, Effective 7/1/2026

Monday	Unload/Load	Approx. Time
Sacramento Public Library	30 min	8:30 AM
Woodland Public Library	30 min	9:30 AM
Sacramento Public Library	30 min	10:00 AM
Tuesday	Unload/Load	
Sacramento Public Library	30 min	8:30 AM
Woodland Public Library	30 min	9:30 AM
Yolo County Library (3rd Tuesday ONLY)	15 min	10:15 AM
Colusa County Library	15 min	11:15 AM
Sutter County Library	30 min	12:00 PM
Folsom Public Library	30 min	1:15 PM
Sacramento Public Library	30 min	2:45 PM
Wednesday		
	Unload/Load	
Sacramento Public Library	30 min	8:30 AM
El Dorado County Library (3rd Wednesday ONLY)	15 min	9:45 AM
Folsom Public Library	30 min	10:45 AM
Roseville Public Library (3rd Wednesday ONLY)	15 min	11:30 AM
Lincoln Public Library	15 min	12:00 PM
Sutter County Library	30 min	1:00 PM
Woodland Public Library	30 min	2:30 PM
Sacramento Public Library	30 min	3:00 PM
Thursday	Unload/Load	
Sacramento Public Library	30 min	8:30 AM
Woodland Public Library	30 min	9:30 AM
Colusa County Library	15 min	11:15 AM
Folsom Public Library	30 min	1:00 PM
Sacramento Public Library	30 min	2:30 PM
Friday	Unload/load	
Sacramento Public Library	30 min	8:30 AM
Folsom Public Library	30 min	9:15 AM
Placer County Library	15 min	9:45 AM
Sutter County Library	30 min	10:30 AM
Sacramento Public Library (Sort/Hold)	30 min	11:15 AM

MOUNTAIN VALLEY LIBRARY SYSTEM

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To: Mountain Valley Library System
From: Andrew Yon, PLP Controller
Subject: Approval of MVLS CalPERS FY 2026-27 UAL Payment & Cost Share Distribution
Date: May 28, 2026

Re: CalPERS Position for FY2026-27

At the January 11, 2024 MVLS Council meeting, the Council approved the following:

Motion to adopt a policy for MVLS to continue with annual payments on the CalPERS annual Unfunded Accrued Liability (UAL) amount and invoice member libraries for payment.

The Administrative Council adopted a cost share model consisting of 50% of population and 50% of budget expenditures submitted to the California State Library. The formula does not include Colusa County, as they are participating in the North State Cooperative Library System's CalPERS unfunded liability obligation.

The most recent CalPERS Actuarial Valuation Report as of June 30, 2024 included the required contributions for FY 2026-27. The annual CalPERS UAL minimum required payment is \$2,133, with a discounted prepayment option of \$2,064.

Mountain Valley Library System
Population and Budget Size - Cost Share Distribution

Prepayment Due Date to NLS: 7/27/26

ANNUAL UNFUNDED ACCRUED LIABILITY (UAL) CALPERS PAYMENT DATE JULY 31, 2026

Library	2024-25 CSL Certified Population	FY2024-25 Budget Expenditure	50% Base on Population	50% Based on Budget Size	CalPERS Prepayment Amount
Alpine	1,177	\$ 447,193	\$ 0	\$ 4	\$ 5
El Dorado	190,770	\$ 4,375,347	\$ 72	\$ 41	\$ 113
Folsom	92,577	\$ 2,145,492	\$ 35	\$ 20	\$ 55
Lincoln	54,520	\$ 1,123,196	\$ 21	\$ 10	\$ 31
Mono	12,684	\$ 1,877,396	\$ 5	\$ 17	\$ 22
Nevada	100,354	\$ 7,263,626	\$ 38	\$ 67	\$ 105
Placer	201,743	\$ 11,360,990	\$ 76	\$ 105	\$ 181
Roseville	158,494	\$ 5,209,366	\$ 60	\$ 48	\$ 108
Sacramento	1,512,168	\$ 61,113,151	\$ 571	\$ 566	\$ 1,137
Sutter	100,257	\$ 2,046,266	\$ 38	\$ 19	\$ 57
Woodland	61,623	\$ 3,193,376	\$ 23	\$ 30	\$ 53
Yolo	163,810	\$ 10,289,884	\$ 62	\$ 95	\$ 157
Yuba	85,023	\$ 935,281	\$ 32	\$ 9	\$ 41
Total	2,735,200	\$ 111,380,564	\$ 1,032	\$ 1,032	\$ 2,064

FY26-27 CalPers Unfunded Liability Prepayment Amount \$2,064; Annual Valuation Report Fee \$350

It should be noted that there is a total of 6 CalPERS retirees that are collecting retirement benefits.

Recommendation

It is recommended that MVLS Council determine whether it would like to use the prepayment option of \$2,064, where all libraries will be invoiced and payment must be made by **July 27, 2026**, or whether the Council would like to pay the \$2,133 and be invoiced in July. It is also recommended that the Council approve the CalPERS UAL cost distribution for FY 2026-27.

The MVLS CalPERS estimated Fund Balance for June 30, 2026 is \$5,665 which may be used to meet current and future obligations, or may be used for emergency purposes, such as should a library not be able to pay in a timely manner.

**NorthNet Library System
Mountain Valley Library System
FY 2026-27 Proposed Budget**

Mountain Valley Library System (922)

<u>GL Acct</u>	<u>Revenue</u>	Adopted FY 25/26	Proposed FY 26/27	Note
3674	Reimbursement-Member Libraries	\$8,665	\$2,064	Libraries CalPERS UAL Obligation
3000	Fund Balance	350	350	Use of Fund Balance for CalPERS Annual Report Fee
	TOTAL REVENUE	\$9,015	\$2,414	(73.22%)
	<u>Expenditure</u>			
4448	Reimbursable-Retiree Benefits	\$ 9,015	\$ 2,414	CalPERS UAL Prepayment \$2,064; GASB Report \$350
	TOTAL EXPENDITURE	\$9,015	\$2,414	(73.22%)
	Fund Balance as of 7/1/25	\$6,015		
	GASB Annual Valuation Report Fee	(\$350)		
	Fund Balance as of 6/30/26	\$5,665 <i>Estimated</i>		

Note: FY26-27 CalPERS Unfunded Liability Prepayment Amount \$2,064; GASB Fee \$350



**California Public Employees' Retirement System
Actuarial Office**

400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or 888-225-7377) | TTY: (877) 249-7442 | www.calpers.ca.gov

July 2025

**All Rate Plans of the Mountain-Valley Library System in the Miscellaneous Risk Pool (CalPERS ID: 1035483646)
Annual Valuation Report as of June 30, 2024**

Dear Employer,

Attached to this letter is Section 1 of the June 30, 2024, actuarial valuation report for the plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2026-27.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the following rate plan(s) including the development of the current and projected employer contributions.
 - 1693, Miscellaneous Plan
- Section 2 contains the Miscellaneous Risk Pool information as of June 30, 2024.

[Section 2](#) can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to “Forms & Publications” and select “View All”. In the search box, enter “Risk Pool” and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2024.

Required Contributions

The table below shows the minimum required employer contributions and member contribution rates for FY 2026-27 along with an estimate of the required employer UAL contribution for FY 2027-28. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Rate Plan	Employer Normal Cost Rate	Member Contribution Rate	Fiscal Year	Employer Amortization of Unfunded Accrued Liability
2026-27	1693	0.00%	0.00%	2026-27	\$2,133
					<i>Projected (Estimated)</i>
				2027-28	\$2,100

The actual investment return for FY 2024-25 was not known at the time this report was prepared. The projected UAL payment above assumes the investment return for that year would be 6.8%. To the extent the actual investment return for FY 2024-25 differs from 6.8%, the actual UAL contribution requirement for FY 2027-28 will differ from that shown above. For additional information on future contribution requirements, please refer to [Projected Employer Contributions](#). This section also contains projected required contributions through FY 2031-32.

PEPRA Member Contribution Rate

The employee contribution rate for PEPRA members can change based on the results of the actuarial valuation. See [Member Contribution Rates](#) for more information.

Report Navigation Features

The valuation report has a number of features to ease navigation and allow the reader to find specific information more quickly. The tables of contents are "clickable." This is true for the main table of contents that follows the title page and the intermediate tables of contents at the beginning of sections. The Adobe navigation pane on the left can also be used to skip to specific exhibits.

There are a number of links throughout the document in blue text. Links that are internal to the document are not underlined, while underlined links will take you to the CalPERS website. Examples are shown below.

Internal Bookmarks	CalPERS Website Links
Required Employer Contributions	Required Employer Contribution Search Tool
Member Contribution Rates	Public Agency PEPRAs Member Contribution Rates
Summary of Key Valuation Results	Pension Outlook Overview
Funded Status – Funding Policy Basis	Interactive Summary of Public Agency Valuation Results
Projected Employer Contributions	Public Agency Actuarial Valuation Reports

Report Enhancements

Effective with the June 30, 2024, actuarial valuation, separate amortization schedules for each tier of benefits are no longer necessary. Multiple amortization schedules, and thus multiple Section 1 reports, have been combined. We believe this gives the employer a clearer picture of the pension plan's financial health and long-term costs.

Further descriptions of general changes are included in the [Highlights and Executive Summary](#) section and in Appendix A - Actuarial Methods and Assumptions in Section 2.

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at **888 CalPERS** (or **888-225-7377**).

Sincerely,



May Shuang Yu, ASA, MAAA
Senior Actuary, CalPERS



Randall Dziubek, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



Scott Terando, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS

California Public Employees' Retirement System

Actuarial Valuation for the Rate Plans of the Mountain-Valley Library System in the Miscellaneous Risk Pool as of June 30, 2024

(CalPERS ID: 1035483646)
(Rate Plan IDs: 1693)

Required Contributions for Fiscal Year

July 1, 2026 — June 30, 2027

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Section 1

California Public Employees' Retirement System

**Employer Specific Information
for the
Rate Plans of the
Mountain-Valley Library System
in the Miscellaneous Risk Pool**

**(CalPERS ID: 1035483646)
(Rate Plan IDs: 1693)**

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Actuarial Certification

It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles as well as the applicable Standards of Practice promulgated by the Actuarial Standards Board. While this report, consisting of Section 1 and Section 2, is intended to be complete, our office is available to answer questions as needed. All of the undersigned are actuaries who satisfy the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* of the American Academy of Actuaries with regard to pensions.

Actuarial Methods and Assumptions

It is our opinion that the assumptions and methods, as recommended by the Chief Actuary and adopted by the CalPERS Board of Administration, are internally consistent and reasonable for this plan.



Randall Dziubek, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



Scott Terando, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS

Actuarial Data and Rate Plan Results

To the best of my knowledge and having relied upon the attestation above that the actuarial methods and assumptions are reasonable as well as the information in Section 2 of this report, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the rate plans of the Mountain-Valley Library System in the Miscellaneous Risk Pool and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation and related validation work was performed by the CalPERS Actuarial Office. The valuation was based on the member and financial data as of June 30, 2024, provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Mountain-Valley Library System, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.



May Shuang Yu, ASA, MAAA
Senior Actuary, CalPERS

Highlights and Executive Summary

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Introduction

This report presents the results of the June 30, 2024, actuarial valuation of the rate plans of the Mountain-Valley Library System in the Miscellaneous Risk Pool of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2026-27.

Purpose of Section 1

This Section 1 report for the rate plans of the Mountain-Valley Library System in the Miscellaneous Risk Pool of CalPERS was prepared by the Actuarial Office using data as of June 30, 2024. This report contains actuarial information for the following rate plan(s).

- 1693, Miscellaneous Plan

The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of these rate plans as of June 30, 2024;
- Determine the minimum required employer contributions for these rate plans for FY July 1, 2026, through June 30, 2027;
- Determine the required member contribution rate for FY July 1, 2026, through June 30, 2027, for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2024, to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact a CalPERS actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of the Actuarial Standards of Practice:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.
- The funded status on a termination basis.
- A low-default-risk obligation measure (LDRM) of benefit costs accrued as of the valuation date.

Summary of Key Valuation Results

Below is a brief summary of key valuation results along with page references where more detailed information can be found.

Required Employer Contributions — page 8

	Fiscal Year 2025-26	Fiscal Year 2026-27
Employer Normal Cost Rates		
Rate Plan 1693	0.00%	0.00%
Unfunded Accrued Liability (UAL) Contribution Amount	\$8,955	\$2,133
Paid either as		
Option 1) 12 Monthly Payments of	\$746.25	\$177.75
Option 2) Annual Prepayment in July	\$8,665	\$2,064

Member Contribution Rates — page 9

	Fiscal Year 2025-26	Fiscal Year 2026-27
Rate Plan 1693	0.00%	0.00%

Projected Employer Contributions — page 13

Fiscal Year	Normal Cost (% of payroll)	Annual UAL Payment
	Rate Plan 1693	
2027-28	0.0%	\$2,100
2028-29	0.0%	\$0
2029-30	0.0%	\$0
2030-31	0.0%	\$0
2031-32	0.0%	\$0

Funded Status — Funding Policy Basis — page 11

	June 30, 2023	June 30, 2024
Entry Age Accrued Liability (AL)	\$993,785	\$985,580
Market Value of Assets (MVA)	932,371	973,962
Unfunded Accrued Liability (UAL) [AL – MVA]	\$61,414	\$11,618
Funded Ratio [MVA ÷ AL]	93.8%	98.8%

Summary of Valuation Data — Page 26

	June 30, 2023	June 30, 2024
Active Member Count	0	0
Annual Covered Payroll	\$0	\$0
Transferred Member Count	0	0
Separated Member Count	0	0
Retired Members and Beneficiaries Count	5	5

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. For pooled rate plans, voluntary benefit changes by plan amendment are generally included in the first valuation with a valuation date on or after the effective date of the amendment.

Please refer to the [Plan's Major Benefit Options](#) in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

Board Policy

On April 16, 2024, the board took action to modify the Funding Risk Mitigation Policy to remove the automatic change to the discount rate when the investment return exceeds various thresholds. Rather than an automatic change to the discount rate, a board discussion would be placed on the calendar. The 95th percentile return in the [Future Investment Return Scenarios](#) exhibit in this report, which includes returns high enough to trigger a board discussion, does not reflect any change in the discount rate.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the June 30, 2024, actuarial valuation.

Report Enhancements

Effective with the June 30, 2024, Actuarial Valuation, separate amortization schedules for each tier of benefits are no longer necessary. Multiple amortization schedules, and thus multiple Section 1 reports, will be combined. We believe this gives the employer a clearer picture of the pension plan's financial health and long-term costs.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2024, as well as statutory changes, regulatory changes and board actions through January 2025.

CalPERS will be completing an Asset Liability Management (ALM) review process in November 2025 that will review the capital market assumptions and the CalPERS Total Fund Investment Policy and ascertain whether a change in the discount is warranted. In addition, the Actuarial Office will be presenting the findings of its Experience Study which reviews economic assumptions other than the discount rate as well as all demographic assumptions and makes recommendations to modify actuarial assumptions where appropriate. Any changes in actuarial assumptions will be reflected in the June 30, 2025, actuarial valuations.

The 2024 annual benefit limit under Internal Revenue Code (IRC) section 415(b) and annual compensation limits under IRC section 401(a)(17) and Government Code section 7522.10 were used for this valuation and are assumed to increase 2.3% per year based on the price inflation assumption. The actual 2025 limits, determined in October 2024, are not reflected.

To the best of our knowledge, there have been no other subsequent events that could materially affect current or future certifications rendered in this report.

Liabilities and Contributions

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- **Required Employer Contributions** 8
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Determination of Required Contributions

Contributions to fund the plan are determined by an actuarial valuation performed each year. The valuation employs complex calculations based on a set of actuarial assumptions and methods. See Appendix A in Section 2 for information on the assumptions and methods used in this valuation. The valuation incorporates all plan experience through the valuation date and sets required contributions for the fiscal year that begins two years after the valuation date.

Contribution Components

Two components comprise required contributions:

- Normal Cost — expressed as a percentage of pensionable payroll
- Unfunded Accrued Liability (UAL) Contribution — expressed as a dollar amount

Normal Cost represents the value of benefits allocated to the upcoming year for active employees. If all plan experience exactly matched the actuarial assumptions, normal cost would be sufficient to fully fund all benefits. The employer and employees each pay a share of the normal cost with contributions payable as part of the regular payroll reporting process. The contribution rate for Classic members is set by statute based on benefit formula whereas for PEPRAs members it is based on 50% of the total normal cost.

When plan experience differs from the actuarial assumptions, UAL emerges. The new UAL may be positive or negative. If the total UAL is positive (i.e., accrued liability exceeds assets), the employer is required to make contributions to pay off the UAL over time. This is called the UAL Contribution component. There is an option to prepay this amount during July of each fiscal year, otherwise it is paid monthly.

In measuring the UAL each year, plan experience is split by source. Common sources of UAL include investment experience different than expected, non-investment experience different than expected, assumption changes and benefit changes. Each source of UAL (positive or negative) forms a base that is amortized, or paid off, over a specified period of time in accordance with the CalPERS [Actuarial Amortization Policy](#). The UAL Contribution is the sum of the payments on all bases. See the [Schedule of Amortization Bases](#) section of this report for an inventory of existing bases and Appendix A in Section 2 for more information on the amortization policy.

Required Employer Contributions

The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees. For employee contribution rates, see [Member Contribution Rates](#).

Required Employer Contributions	Fiscal Year 2026-27
Employer Normal Cost Rate	0.00%
<i>Plus</i>	
Unfunded Accrued Liability (UAL) Contribution Amount[†]	\$2,133
<i>Paid either as</i>	
1) Monthly Payment	\$177.75
<i>Or</i>	
2) Annual Prepayment Option[‡]	\$2,064
<p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) and the Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly(1) or prepaid annually(2) in dollars).</p> <p>*No normal cost rate is developed for inactive rate plans. If the employer is enrolling employees into an inactive rate plan, contact CalPERS.</p> <p>[†]The required payment on amortization bases does not take into account any additional discretionary payment made after April 30, 2025.</p> <p>[‡]Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31).</p>	

Development of Normal Cost as a Percentage of Payroll

This report includes no active rate plans. An employer normal cost rate is not developed for inactive rate plans.

Member Contribution Rates

The required member contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.

Classic Members

Each member contributes toward their retirement based upon the retirement formula. The standard Classic member contribution rate above the breakpoint, if any, is as described below.

Benefit Formula	Percent Contributed above the Breakpoint
Miscellaneous, 1.5% at age 65	2%
Miscellaneous, 2% at age 60	7%
Miscellaneous, 2% at age 55	7%
Miscellaneous, 2.5% at age 55	8%
Miscellaneous, 2.7% at age 55	8%
Miscellaneous, 3% at age 60	8%

Auxiliary organizations of the CSU system may elect reduced contribution rates for Miscellaneous members, in which case the contribution rate above the breakpoint is 6% if members are not covered by Social Security and 5% if they are.

PEPRA Members

The California Public Employees' Pension Reform Act of 2013 (PEPRA) established new benefit formulas, final compensation period, and contribution requirements for "new" employees (generally those first hired into a CalPERS-covered position on or after January 1, 2013). In accordance with Government Code Section 7522.30(b), "new members ... shall have an initial contribution rate of at least 50% of the normal cost rate." The normal cost rate for the plan is dependent on the benefit levels, actuarial assumptions and demographics of the risk pool, particularly members' entry age. Should the total normal cost rate of the plan change by more than 1% from the base total normal cost rate established for the plan, the new member rate shall be 50% of the new normal cost rate rounded to the nearest quarter percent.

Breakdown of Entry Age Accrued Liability

Active Members	\$0
Transferred Members	0
Separated Members	0
Members and Beneficiaries Receiving Payments	985,580
Total	<u>\$985,580</u>

Allocation of Plan's Share of Pool's Experience

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$985,580
2. Projected UAL Balance at 6/30/2024	22,824
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2024 for Asset Share	51,644
5. Pool's Accrued Liability ¹	24,701,567,178
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2024 ¹	5,686,499,631
7. Pool's 2023-24 Investment (Gain)/Loss ¹	(476,088,386)
8. Pool's 2023-24 Non-Investment (Gain)/Loss ¹	305,188,638
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	(23,383)
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	12,177
11. Plan's New (Gain)/Loss as of 6/30/2024: $(9) + (10)$	(11,206)
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	0
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	0
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	(23,383)

¹ Does not include plans that transferred to the pool on the valuation date.

Development of the Plan's Share of Pool's Assets

18. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$11,618
19. Plan's Share of Pool's Market Value of Assets (MVA): $(1) - (18)$	\$973,962

For a reconciliation of the pool's Market Value of Assets (MVA), information on the fund's asset allocation and a history of CalPERS investment returns, see [Section 2](#), which can be found on the CalPERS website (www.calpers.ca.gov).

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the market value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability (UAL)** equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **Funded Ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2023	June 30, 2024
1. Present Value of Benefits	\$993,785	\$985,580
2. Entry Age Accrued Liability	993,785	985,580
3. Market Value of Assets (MVA)	932,371	973,962
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	\$61,414	\$11,618
5. Funded Ratio [(3) ÷ (2)]	93.8%	98.8%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$1,075,249	\$985,580	\$908,329
2. Market Value of Assets (MVA)	973,962	973,962	973,962
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$101,287	\$11,618	(\$65,633)
4. Funded Ratio [(2) ÷ (1)]	90.6%	98.8%	107.2%

The [Risk Analysis](#) section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Additional Employer Contributions

The CalPERS amortization policy provides a systematic methodology for paying down a plan’s unfunded accrued liability (UAL) over a reasonable period of years. The projected schedule of required payments for this plan under the amortization policy is provided in [Amortization Schedule and Alternatives](#). Certain aspects of the policy such as 1) layered amortization bases (positive and negative) with different remaining payoff periods, and 2) the phase-in of required payments toward investment gains and losses, can result in volatility in year-to-year projected UAL payments. Provided below is information on how an Additional Discretionary Payment (ADP), together with your required UAL payment of \$2,133 for FY 2026-27, may better accomplish your agency’s specific objectives with regard to either smoothing out projected future payments or achieving a greater reduction in UAL than would otherwise occur when making only the minimum required payment. Such additional payments are allowed at any time and can also result in significant long-term savings.

Fiscal Year 2026-27 Employer Contribution Versus Agency Funding Objectives

The interest-to-payment ratio for the FY 2026-27 minimum required UAL payment is 9%, which means the required payment of \$2,133 includes \$200 of interest cost and results in a \$1,933 reduction in the UAL, as can be seen in [Amortization Schedule and Alternatives](#) (see columns labelled Current Amortization Schedule). If the interest-to-payment ratio is close to 100%, and the reduction in the UAL is small, it may indicate that required contributions will be increasing in the coming years, which would be shown in [Projected Employer Contributions](#). Another measure that can be used to evaluate how well the FY 2026-27 required UAL payment meets the agency’s specific funding objectives is the number of years required to pay off the existing UAL if the annual payment were held constant in future years. With an annual payment of \$2,133 it would take 2.0 years to pay off the current UAL. A result that is longer than the agency’s target funding period suggests that the option of supplementing the minimum payment with an ADP should be weighed against the agency’s budget constraints.

Provided below are select ADP options for consideration. Making such an ADP during FY 2026-27 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see [Amortization Schedule and Alternatives](#). Agencies considering making an ADP should contact CalPERS for additional information.

Fiscal Year 2026-27 Employer Contributions — Illustrative Scenarios

If the Annual UAL Payment Each Year Were...	The Current UAL Would be Paid Off in...	This Would Require an ADP ¹ in FY 2026-27 of...	Plus the Estimated Normal Cost of...	Estimated Total Contribution
\$2,133	2.0 years	\$0	\$0	\$2,133
938	5 years	N/A	0	938

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

The calculations above are based on the projected UAL as of June 30, 2026, as determined in the June 30, 2024, actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Additional Discretionary Payment History

The following table provides a recent history of actual ADPs made to the plan through April 30, 2025.

Fiscal Year	ADP	Fiscal Year	ADP
2019-20	\$300,952	2022-23	\$27,137
2020-21	782	2023-24	41,844
2021-22	0	2024-25	0

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2024-25 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

The normal cost rates for each rate plan are assumed to remain constant. However, the employer contribution amounts will vary due to changes in payroll. The actuarial valuation does not include payroll beyond the valuation date. For the most realistic projections, the employer should apply projected payroll amounts to the rates below based on the most recent information available, such as current payroll as well as any plans to fill vacancies or add or remove positions.

Rate Plan Identifier	Covered Payroll June 30, 2024	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2024-25 and Beyond)					
		2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	
							Normal Cost Rates (Percentage of Payroll)	
1693	\$0	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	
UAL Payment		\$2,133	\$2,100	\$0	\$0	\$0	\$0	

Unlike the normal cost rates, the required UAL payments are expected to vary significantly from the projections above due to experience, particularly investment experience. For projected contributions under alternate investment return scenarios, please see the [Future Investment Return Scenarios](#) exhibit. Our online pension plan projection tool, [Pension Outlook](#), is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

For ongoing plans, investment gains and losses are amortized using an initial 5-year ramp. For more information, please see Amortization of Unfunded Actuarial Accrued Liability in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in anyone year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the initial ramp period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

Schedule of Amortization Bases

Below is the schedule of the plan’s amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities and funded status of the plan are measured as of the valuation date: June 30, 2024.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2026-27.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment on the UAL for FY 2024-25 is based on the actuarial valuation two years ago, adjusted for additional discretionary payments made on or before April 30, 2025, if necessary, and the expected payment for FY 2025-26 is based on the actuarial valuation one year ago.

Reason for Base	Date Est.	Ramp Level 2026-27	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/24	Expected Payment 2024-25	Balance 6/30/25	Expected Payment 2025-26	Balance 6/30/26	Minimum Required Payment 2026-27
Fresh Start	6/30/24	No Ramp		0.00%	2	11,618	0	12,408	8,955	3,997	2,133
Total						11,618	0	12,408	8,955	3,997	2,133

The (gain)/loss bases are the plan’s allocated share of the risk pool’s (gain)/loss for the fiscal year as disclosed in [Allocation of Plan’s Share of Pool’s Experience](#) earlier in this report. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Each year, many agencies express a desire for a more stable pattern of payments or indicate interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact a CalPERS actuary.

The current amortization schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The current amortization schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS [Actuarial Amortization Policy](#).

Amortization Schedule and Alternatives (continued)

Date	Current Amortization Schedule		Alternative Schedules			
	Balance	Payment	Alternative Schedule 1		Alternative Schedule 2	
			Balance	Payment	Balance	Payment
6/30/2026	3,997	2,133	N/A	N/A	N/A	N/A
6/30/2027	2,064	2,133				
6/30/2028						
6/30/2029						
6/30/2030						
6/30/2031						
6/30/2032						
6/30/2033						
6/30/2034						
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6/30/2043						
6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		4,266		N/A		N/A
Interest Paid		269		N/A		N/A
Estimated Savings				N/A		N/A

Employer Contribution History

The table below provides a recent history of the employer contribution requirements for the plan, as determined by the annual actuarial valuation. Changes due to prepayments or plan amendments after the valuation report was finalized are not reflected.

Valuation Date	Contribution Year	Employer Normal Cost Rate	Unfunded Liability Payment
		Rate Plan 1693	
06/30/2015	2017-18	0.000%	\$22,786
06/30/2016	2018-19	0.000%	28,506
06/30/2017	2019-20	0.000%	29,876
06/30/2018	2020-21	0.000%	33,268
06/30/2019	2021-22	0.00%	95
06/30/2020	2022-23	0.00%	3,751
06/30/2021	2023-24	0.00%	0
06/30/2022	2024-25	0.00%	12,162
06/30/2023	2025-26	0.00%	8,955
06/30/2024	2026-27	0.00%	2,133

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2015	\$945,521	\$715,042	\$230,479	75.6%	\$0
06/30/2016	935,937	645,445	290,492	69.0%	0
06/30/2017	1,013,685	724,852	288,833	71.5%	0
06/30/2018	1,039,341	721,927	317,414	69.5%	0
06/30/2019	1,037,480	719,792	317,688	69.4%	0
06/30/2020	1,031,547	1,003,858	27,689	97.3%	0
06/30/2021	1,030,086	1,122,472	(92,386)	109.0%	0
06/30/2022	1,041,290	973,036	68,254	93.4%	0
06/30/2023	993,785	932,371	61,414	93.8%	0
06/30/2024	985,580	973,962	11,618	98.8%	0

Risk Analysis

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Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer UAL contributions. The CalPERS [Funding Risk Mitigation Policy](#) stipulates that when the investment return exceeds the discount rate by at least 2% the board will consider adjustments to the discount rate. The projections below use a discount rate of 6.8% for all scenarios even though an annual return of 10.8% is high enough to trigger a board discussion on the discount rate. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The employer normal cost rates are not affected by investment returns, and since no future assumption changes are being reflected, the projected employer normal cost rates for every future investment return scenario are the same as those shown earlier in this report. See [Projected Employer Contributions](#) for more information on projecting the employer normal cost.

The first table shows projected UAL contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2044.

Assumed Annual Return FY 2024-25 through FY 2043-44	Projected Employer UAL Contributions				
	2027-28	2028-29	2029-30	2030-31	2031-32
3.0% (5th percentile)	\$12,000	\$20,000	\$30,000	\$41,000	\$52,000
10.8% (95th percentile)	\$0	\$0	\$0	\$0	\$0

Required UAL contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of one and two standard deviation investment losses in FY 2024-25 on the FY 2027-28 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2027-28.

Assumed Annual Return for Fiscal Year 2024-25	Required Employer UAL Contributions	Projected Employer UAL Contributions
	2026-27	2027-28
(17.2%) (2 standard deviation loss)	\$2,133	\$65,000
(5.2%) (1 standard deviation loss)	\$2,133	\$33,000

- Without investment gains (returns higher than 6.8%) in FY 2025-26 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2024-25.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2027-28 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2024, assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Discount Rate Due to Varying the Real Rate of Return Assumption

As of June 30, 2024	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.3%	2.3%	2.3%
Real Rate of Return	3.5%	4.5%	5.5%
a) Total Normal Cost	0.00%	0.00%	0.00%
b) Accrued Liability	\$1,075,249	\$985,580	\$908,329
c) Market Value of Assets	\$973,962	\$973,962	\$973,962
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$101,287	\$11,618	(\$65,633)
e) Funded Ratio	90.6%	98.8%	107.2%

Sensitivity to the Discount Rate Due to Varying the Price Inflation Assumption

As of June 30, 2024	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.3%	2.3%	3.3%
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	0.00%	0.00%	0.00%
b) Accrued Liability	\$1,010,729	\$985,580	\$933,271
c) Market Value of Assets	\$973,962	\$973,962	\$973,962
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$36,767	\$11,618	(\$40,691)
e) Funded Ratio	96.4%	98.8%	104.4%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2024, plan costs and funded status under two different longevity scenarios, namely assuming rates of post-retirement mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2024	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	0.00%	0.00%	0.00%
b) Accrued Liability	\$1,011,839	\$985,580	\$961,624
c) Market Value of Assets	\$973,962	\$973,962	\$973,962
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$37,877	\$11,618	(\$12,338)
e) Funded Ratio	96.3%	98.8%	101.3%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures include only the rate plans covered in this report. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio increases. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2023	June 30, 2024
1. Retiree Accrued Liability	\$993,785	\$985,580
2. Total Accrued Liability	\$993,785	\$985,580
3. Ratio of Retiree AL to Total AL [(1) ÷ (2)]	100%	100%

Another measure of the maturity level of CalPERS and its plans is the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, may be less informative than the ratio of retiree liability to total accrued liability above.

For comparison, the support ratio for all CalPERS public agency plans as of June 30, 2023, was 0.78 and was calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	June 30, 2023	June 30, 2024
1. Number of Actives	0	0
2. Number of Retirees	5	5
3. Support Ratio [(1) ÷ (2)]	0.00	0.00

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary increases, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have a higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with an LVR of 8 is expected to have twice the contribution volatility of a plan with an LVR of 4 when there is a change in accrued liability, such as when there is a change in actuarial assumptions. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2023	June 30, 2024
1. Market Value of Assets	\$932,371	\$973,962
2. Payroll	\$0	\$0
3. Asset Volatility Ratio (AVR) [(1) ÷ (2)]	N/A	N/A
4. Accrued Liability	\$993,785	\$985,580
5. Liability Volatility Ratio (LVR) [(4) ÷ (2)]	N/A	N/A

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	100%	0.00	N/A	N/A
06/30/2018	100%	0.00	N/A	N/A
06/30/2019	100%	0.00	N/A	N/A
06/30/2020	100%	0.00	N/A	N/A
06/30/2021	100%	0.00	N/A	N/A
06/30/2022	100%	0.00	N/A	N/A
06/30/2023	100%	0.00	N/A	N/A
06/30/2024	100%	0.00	N/A	N/A

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimated range for the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2024. The accrued liability on a termination basis (termination liability) is calculated differently from the plan’s ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefits security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the remainder of the PERF and consequently, a lower discount rate assumption. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The discount rate used for actual termination valuations is a weighted average of the 10-year and 30-year Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the following analysis is based on 20-year Treasury bonds, which is a good proxy for most plans. The discount rate upon contract termination will depend on actual Treasury rates on the date of termination, which varies over time, as demonstrated below.

<u>Valuation Date</u>	<u>20-Year Treasury Rate</u>	<u>Valuation Date</u>	<u>20-Year Treasury Rate</u>
06/30/2015	2.83%	06/30/2020	1.18%
06/30/2016	1.86%	06/30/2021	2.00%
06/30/2017	2.61%	06/30/2022	3.38%
06/30/2018	2.91%	06/30/2023	4.06%
06/30/2019	2.31%	06/30/2024	4.61%

As Treasury rates are variable, the table below shows a range for the termination liability using discount rates 1% below and above the 20-year Treasury rate on the valuation date. The price inflation assumption is the 20-year Treasury breakeven inflation rate, that is, the difference between the 20-year inflation indexed bond and the 20-year fixed-rate bond.

The Market Value of Assets (MVA) also varies with interest rates and will fluctuate depending on other market conditions on the date of termination. Since it is not possible to approximate how the MVA will change in different interest rate environments, the results below use the MVA as of the valuation date.

	Discount Rate: 3.61% Price Inflation: 2.45%	Discount Rate: 5.61% Price Inflation: 2.45%
1. Termination Liability ¹	\$1,396,962	\$1,149,041
2. Market Value of Assets (MVA)	973,962	973,962
3. Unfunded Termination Liability [(1) – (2)]	\$423,000	\$175,079
4. Funded Ratio [(2) ÷ (1)]	69.7%	84.8%

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

In order to terminate, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow a CalPERS actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan’s assets and liabilities. Before beginning this process, please consult with a CalPERS actuary.

Funded Status – Low-Default-Risk Basis

Actuarial Standard of Practice (ASOP) No. 4, *Measuring Pension Obligations and Determining Pension Plan Costs or Contributions*, requires the disclosure of a low-default-risk obligation measure (LDROM) of benefit costs accrued as of the valuation date using a discount rate based on the yields of high quality fixed income securities with cash flows that replicate expected benefit payments. Conceptually, this measure represents the level at which financial markets would value the accrued plan costs, and would be approximately equal to the cost of a portfolio of low-default-risk bonds with similar financial characteristics to accrued plan costs.

As permitted in ASOP No. 4, the Actuarial Office uses the Entry Age Actuarial Cost Method to calculate the LDROM. This methodology is in line with the measure of “benefit entitlements” calculated by the Bureau of Economic Analysis and used by the Federal Reserve to report the indebtedness due to pensions of plan sponsors and, conversely, the household wealth due to pensions of plan members.

As shown below, the discount rate used for the LDROM is 5.35%, which is the Standard FTSE Pension Liability Index¹ discount rate as of June 30, 2024.

Selected Measures on a Low-Default-Risk Basis	June 30, 2024
Discount Rate	5.35%
1. Accrued Liability – Low-Default-Risk Basis (LDROM)	
a) Active Members	\$0
b) Transferred Members	0
c) Separated Members	0
d) Members and Beneficiaries Receiving Payments	1,120,361
e) Total	\$1,120,361
2. Market Value of Assets (MVA)	973,962
3. Unfunded Accrued Liability – Low-Default-Risk Basis [(1e) – (2)]	\$146,399
4. Unfunded Accrued Liability – Funding Policy Basis	11,618
5. Present Value of Unearned Investment Risk Premium [(3) – (4)]	\$134,781

The difference between the unfunded liabilities on a low-default-risk basis and on the funding policy basis represents the present value of the investment risk premium that must be earned in future years to keep future contributions for currently accrued plan costs at the levels anticipated by the funding policy.

Benefit security for members of the plan relies on a combination of the assets in the plan, the investment income generated from those assets, and the ability of the plan sponsor to make necessary future contributions. If future returns fall short of 6.8%, benefit security could be at risk without higher than currently anticipated future contributions.

The funded status on a low-default-risk basis is not appropriate for assessing the sufficiency of plan assets to cover the cost of settling the plan’s benefit obligations (see [Funded Status – Termination Basis](#)), nor is it appropriate for assessing the need for future contributions (see [Funded Status – Funding Policy Basis](#)).

¹ This index is based on a yield curve of hypothetical AA-rated zero-coupon corporate bonds whose maturities range from 6 months to 30 years. The index represents the single discount rate that would produce the same present value as discounting a standardized set of liability cash flows for a fully open pension plan using the yield curve. The liability cash flows are reasonably consistent with the pattern of benefits expected to be paid from the entire Public Employees’ Retirement Fund for current and former plan members. A different index, hence a different discount rate, may be needed to measure the LDROM for a subset of the fund, such as a single rate plan or a group of retirees.

Supplementary Information

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Summary of Valuation Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2023	June 30, 2024
Active Members		
Counts	0	0
Average Attained Age	N/A	0.0
Average Entry Age to Rate Plan	N/A	0.0
Average Years of Credited Service	N/A	0.0
Average Annual Covered Pay	N/A	\$0
Annual Covered Payroll	\$0	\$0
Present Value of Future Payroll	\$0	\$0
Transferred Members		
Counts	0	0
Separated Members		
Counts	0	0
Retired Members and Beneficiaries*		
Counts	5	5
Average Annual Benefits	\$16,534	\$16,864
Total Annual Benefits	\$82,670	\$84,322

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

Status of PEPR A Transition

The California Public Employees' Pension Reform Act of 2013 (PEPRA), which took effect in January 2013, changed CalPERS retirement benefits and placed compensation limits on new members joining CalPERS on or after January 1, 2013. One of the objectives of PEPRA was to improve the ability of employers to manage the costs of retirement benefits for their members. While such changes can reduce future benefit costs in a meaningful way, the full impact on employer contributions will not occur until all active members are subject to the rules and provisions of PEPRA. The table below illustrates the status of this transition as of June 30, 2024.

	Classic	PEPRA	PEPRA as a Percent of Total
Active Members			
Count	0	0	N/A
Average Attained Age	0.0	0.0	
Average Entry Age	0.0	0.0	
Average Years of Credited Service	0.0	0.0	
Average Annual Covered Payroll	\$0	\$0	
Annual Covered Payroll	\$0	\$0	N/A
Present Value of Future Payroll	\$0	\$0	N/A
Transferred Members			
Count	0	0	N/A
Separated Members			
Count	0	0	N/A
Retired Members and Beneficiaries Receiving Payments			
Count	5	0	0.0%
Average Annual Benefit	\$16,864	\$0	
Total Annual Benefits	\$84,322	\$0	0.0%
Accrued Liabilities			
Active Members	\$0	\$0	N/A
Transferred Members	0	0	N/A
Separated Members	0	0	N/A
Retired Members and Beneficiaries	<u>985,580</u>	<u>0</u>	<u>0.0%</u>
Total	\$985,580	\$0	0.0%

Surcharge for Class 1 Benefits

This plan has the following Class 1 benefit provisions which result in the surcharges indicated:

Class 1 benefit provisions

None

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Rate Plan 1693	Benefit Group	
Member Category	Misc	
Demographics		
Actives	No	
Transfers/Separated	No	
Receiving	Yes	
Benefit Provision		
Benefit Formula		
Social Security Coverage		
Full/Modified		
Employee Contribution Rate		
Final Average Compensation Period		
Sick Leave Credit		
Non-Industrial Disability		
Industrial Disability		
Pre-Retirement Death Benefits		
Optional Settlement 2		
1959 Survivor Benefit Level		
Special		
Alternate (firefighters)		
Post-Retirement Death Benefits		
Lump Sum	\$2,000	
Survivor Allowance (PRSA)	No	
COLA	2%	

Section 2

California Public Employees' Retirement System

Risk Pool Actuarial Valuation Information

[Section 2](#) may be found on the CalPERS website (www.calpers.ca.gov) in the Forms & Publications section