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October 2010

MISCELLANEOUS PLAN OF THE CITY OF FULLERTON (EMPLOYER # 122) Annual Valuation Report as of June 30, 2009

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2009 actuarial valuation report of your pension plan. This report contains important actuarial information about your pension plan at CalPERS. Your CalPERS staff actuary is available to discuss the report with you.

Changes Since the Prior Year's Valuation

The CalPERS' Board of Administration adopted updated actuarial assumptions to be used beginning with the June 30, 2009 valuation. In addition, a temporary modification to our method of determining the actuarial value of assets and amortizing gains and losses has been implemented for the valuations as of June 30, 2009 through June 30, 2011. Finally, a cash flow analysis has been added to our process. If such an analysis indicates that funding progress will not be adequate, an additional contribution will be required.

There may also be changes specific to your plan such as contract amendments and funding changes.

Further descriptions of changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions." The effect of the changes on your rate is included in the "Reconciliation of Required Employer Contributions."

Future Contribution Rates

The exhibit below displays the required employer contribution rate and Superfunded status for 2011/2012 along with estimates of the contribution rate for 2012/2013 and 2013/2014 and the probable Superfunded status for 2012/2013. The estimated rate for 2012/2013 is based solely on a projection of the investment return for fiscal 2009/2010, namely 11.0%. The estimated rate for 2013/2014 uses the valuation assumption of 7.75% as the investment return for fiscal 2010/2011. See Appendix D, "Investment Return Sensitivity Analysis", for rate projections under a variety of investment return scenarios. Please disregard any projections that we may have provided to you in the past.

Fiscal Year	Employer Contribution Rate	Superfunded?
2011/2012	11.119%	NO
2012/2013	12.4% (projected)	NO
2013/2014	15.9% (projected)	N/A

Member contributions (whether paid by the employer or the employee) are in addition to the above rates.

The estimates for 2012/2013 and 2013/2014 also assume that there are no future amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.). This is a very important assumption because these gains and losses do occur and can have a significant impact on your contribution rate. Even for the largest plans, such gains and losses often cause a change in the employer's contribution rate of one or two percent and may be even larger in some less common instances. These gains and losses cannot be predicted in advance so the projected employer contribution rates are just estimates. Your actual rate for 2012/2013 will be provided in next year's report.

MISCELLANEOUS PLAN OF THE CITY OF FULLERTON (EMPLOYER # 122) October 2010 Page 2

We are very busy preparing actuarial valuations for other public agencies and expect to complete all such valuations by the end of October. We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their result, we ask that, if at all possible, you wait until after October 31 to contact us with questions. If you have questions, please call (888) CalPERS (225-7377).

Sincerely,

ALAN MILLIGAN, MAAA, FCA, FSA, FCIA

Chief Actuary

ACTUARIAL VALUATION

as of June 30, 2009

for the MISCELLANEOUS PLAN of the CITY OF FULLERTON

(EMPLOYER # 122)

REQUIRED CONTRIBUTIONS FOR FISCAL YEAR July 1, 2011 – June 30, 2012



California Public Employees' Retirement System P.O. Box 942709 Sacramento, CA 94229-2709 (888) CalPERS (225-7377)

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ACTUARIAL CERTIFICATION

To the best of our knowledge, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the MISCELLANEOUS PLAN OF THE CITY OF FULLERTON. This valuation is based on the member and financial data as of June 30, 2009 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for this plan, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

The undersigned listed are actuaries for CalPERS. Both are members of the American Academy of Actuaries and the Society of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Richard Santos, CFA, ASA, MAAA Senior Pension Actuary, CalPERS

Richard Z

Plan Actuary

ALAN MILLIGAN, MAAA, FCA, FSA, FCIA

Chief Actuary

HIGHLIGHTS AND EXECUTIVE SUMMARY

- PURPOSE OF THE REPORT
- REQUIRED CONTRIBUTIONS
- FUNDED STATUS
- COST AND VOLATILITY
- CHANGES SINCE THE PRIOR VALUATION

Purpose of the Report

This report presents the results of the June 30, 2009 actuarial valuation of the MISCELLANEOUS PLAN OF THE CITY OF FULLERTON of the California Public Employees' Retirement System (CalPERS). The valuation was prepared by the Plan Actuary in order to:

- set forth the actuarial assets and accrued liabilities of this plan as of June 30, 2009;
- certify that the actuarially required employer contribution rate of this plan for the fiscal year July 1, 2011 through June 30, 2012 is 11.119%;
- provide actuarial information as of June 30, 2009 to the CalPERS Board of Administration and other interested parties; and
- provide pension information as of June 30, 2009 to be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement Number 27 for a Single Employer Defined Benefit Pension Plan.

Use of this report for other purposes may be inappropriate.

Required Contributions

Required Employer Contributions		Fiscal Year 2010/2011	Fiscal Year 2011/2012
Employer Contribution Required (in Projected Dollars)			
Payment for Normal Cost	\$	2,342,049	\$ 2,251,468
Payment on the Amortization Bases		554,905	1,138,863
Total (not less than zero)	\$	2,896,954	\$ 3,390,331
Annual Lump Sum Prepayment Option*	\$	2,790,827	\$ 3,266,130
Employer Contribution Required (Percentage of Payroll)			
Payment for Normal Cost		7.775%	7.384%
Payment on the Amortization Bases		1.842%	3.735%
Total (not less than zero)	_	9.617%	11.119%

Funded Status

	June 30, 2008	J	une 30, 2009
Present Value of Projected Benefits	\$ 222,487,070	\$	233,023,630
Entry Age Normal Accrued Liability	\$ 189,350,854	\$	202,257,209
Actuarial Value of Assets (AVA)	180,794,207		186,300,413
Unfunded Liability	\$ 8,556,647	\$	15,956,796
Market Value of A ssets (MVA)	\$ 185,322,471	\$	136,167,010
Funded Status (on an MVA basis)	97.9%		67.3%
Superfunded Status	No		No

^{*} Payment **must be** received by CalPERS between July 1 and July 15.

Cost and Volatility

Actuarial Cost Estimates in General

What will this pension plan cost? Unfortunately, there is no simple answer. There are two major reasons for the complexity of the answer. First, all actuarial calculations, including the ones in this report, are based on a number of assumptions about the future. These assumptions can be divided into two categories.

- Demographic assumptions include the percentage of employees that will terminate, die, become disabled, and retire in each future year.
- Economic assumptions include future salary increases for each active employee, and the assumption with the greatest impact, future asset returns at CalPERS for each year into the future until the last dollar is paid to current members of your plan.

While CalPERS has set these assumptions to reflect our best estimate of the real future of your plan, it must be understood that these assumptions are very long term predictors and will surely not be realized in any one year. For example, while the asset earnings at CalPERS have averaged more than the assumed return of 7.75% for the past twenty year period ending June 30, 2010 returns for each fiscal year ranged from -24% to +20.1%

Second, the very nature of actuarial funding produces the answer to the question of plan cost as the sum of two separate pieces.

- The Normal Cost (i.e., the future annual premiums in the absence of surplus or unfunded liability)
 expressed as a percentage of total active payroll.
- The Past Service Cost or Accrued Liability (i.e., the current value of the benefit for all credited past service of current members) which is expressed as a lump sum dollar amount.

The cost is the sum of a percent of future pay and a lump sum dollar amount (the sum of an apple and an orange if you will). To communicate the total cost, either the Normal Cost (i.e., future percent of payroll) must be converted to a lump sum dollar amount (in which case the total cost is the present value of benefits), or the Past Service Cost (i.e., the lump sum) must be converted to a percent of payroll (in which case the total cost is expressed as the employer's rate, part of which is permanent and part temporary). Converting the Past Service Cost lump sum to a percent of payroll requires a specific amortization period, and the employer rate will vary depending on the amortization period chosen.

Rate Volatility

As is stated above, the actuarial calculations supplied in this communication are based on a number of assumptions about very long term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and 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 the employer's rates from one year to the next. Therefore, the rates will inevitably fluctuate, especially due to the ups and downs of investment returns.

Plans that have higher asset to payroll ratios produce more volatile employer rates due to investment return. On the following page we have shown your volatility index, a measure of the plan's potential future rate volatility. It should be noted that this ratio increases over time but generally tends to stabilize as the plan matures.

	As of June 30, 200		
Market Value of Assets without Receivables	\$	135,430,648	
Payroll		27,701,536	
Volatility Index		4.9	

Changes since the Prior Valuation

Actuarial Assumptions

CalPERS recently completed an experience study that analyzed demographic data for the years 1997 to 2007. As a result of this study, the CalPERS' Board of Administration adopted updated actuarial assumptions to be used beginning with the June 30, 2009 valuation. Nearly all of the demographic assumptions have changed, including salary increase assumptions and rates for mortality, disability, termination and retirement. Of these, the change to the post retirement mortality assumption had the most significant impact on contribution rates.

The new assumptions are described in Appendix A. The effect of the change in assumptions on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is included in the "Reconciliation of Required Employer Contributions".

Actuarial Methods

In June 2009, the CalPERS Board adopted changes to the asset smoothing method as well as changes to the Board policy on the amortization of gains and losses in order to phase in over a three year period the impact of the -24% investment loss experienced by CalPERS in fiscal year 2008-2009. The following changes were adopted:

- Increase the corridor limits for the actuarial value of assets from 80%-120% of market value to 60%-140% of market value on June 30, 2009
- Reduce the corridor limits for the actuarial value of assets to 70%-130% of market value on June 30, 2010
- Return to the 80%-120% of market value corridor limits for the actuarial value of assets on June 30, 2011 and thereafter
- Isolate and amortize all gains and losses during fiscal year 2008-2009, 2009-2010 and 2010-2011 over fixed and declining 30 year periods (as opposed to the current rolling 30 year amortization)

In addition, in February 2010 the CalPERS Board adopted a resolution requiring additional contributions for any plan or pool if the cash flows hamper adequate funding progress by preventing the expected funded status on a market value of assets basis of the plan to either:

- Increase by at least 15% by June 30, 2043; or
- Reach a level of 75% funded by June 30, 2043

A complete description of all methods is in Appendix A. The detailed calculation of the actuarial value of assets is shown in the "Development of the Actuarial Value of Assets." The effect of the change in method

on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is included in the "Reconciliation of Required Employer Contributions."

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation with a valuation date on or after the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation with a report dated after the amendment effective date.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to Appendix B for a summary of the plan provisions used in the valuation. The effect of any mandated benefit changes or plan amendments on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is shown in the "Reconciliation of Required Employer Contributions". It should be noted that no change in liability or rate is shown for any plan changes which were already included in the prior year's valuation.

SUMMARY OF LIABILITIES AND RATES

- DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES
- (GAIN) / LOSS ANALYSIS
- SCHEDULE OF AMORTIZATION BASES
- RECONCILIATION OF REQUIRED EMPLOYER CONTRIBUTIONS
- EMPLOYER CONTRIBUTION RATE HISTORY
- FUNDING HISTORY

Development of Accrued and Unfunded Liabilities

1.	Present Value of Projected Benefits a) Active Members b) Transferred Members c) Terminated Members d) Members and Beneficiaries Receiving Payments e) Total	\$ 120,689,343 17,136,076 2,360,995 92,837,216 233,023,630
2.	Present Value of Future Employer Normal Costs	\$ 15,297,545
3.	Present Value of Future Employee Contributions	\$ 15,468,876
4.	Entry Age Normal Accrued Liability a) Active Members b) Transferred Members c) Terminated Members d) Members and Beneficiaries Receiving Payments e) Total	\$ 89,922,922 17,136,076 2,360,995 92,837,216 202,257,209
5.	Actuarial Value of Assets	\$ 186,300,413
6.	Unfunded Accrued Liability [(4e) – (5)]	\$ 15,956,796

(Gain)/Loss Analysis 6/30/08 - 6/30/09

To calculate the cost requirements of the plan, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is compared to the expected experience based on the actuarial assumptions. This results in actuarial gains or losses, as shown below.

Α	Total (Gain)/Loss for the Year*		
•	1. Unfunded Accrued Liability (UAL) as of 6/30/08	\$	8,556,647
	Expected Payment on the UAL during 2008/2009	Ψ	458,600
	3. Interest through 6/30/09 [.0775 x (A1) - ((1.0775) $^{1/2}$ - 1) x (A2)]		645,701
	4. Expected UAL before all other changes [(A1) - (A2) + (A3)]		8,743,748
	5. Change due to plan changes		0
	6. Change due to assumption change		4,975,370
	7. Expected UAL after all other changes [(A4) + (A5) + (A6)]		13,719,118
	8. Actual UAL as of 6/30/09		15,956,796
	9. Total (Gain)/Loss for 2008/2009 [(A8) - (A7)]	\$	2,237,678
В	Contribution (Gain)/Loss for the Year		
	Expected Contribution (Employer and Employee)	\$	4,633,470
	2. Interest on Expected Contributions		176,197
	3. Actual Contributions		4,400,005
	4. Interest on Actual Contributions		167,319
	5. Expected Contributions with Interest [(B1) + (B2)]		4,809,667
	6. Actual Contributions with Interest [(B3) + (B4)]		4,567,324
	7. Contribution (Gain)/Loss [(B5) - (B6)]	\$	242,343
С	Asset (Gain)/Loss for the Year		
	1. Actuarial Value of Assets as of 6/30/08 Including Receivables	\$	180,794,207
	2. Receivables as of 6/30/08		749,612
	3. Actuarial Value of Assets as of 6/30/08		180,044,595
	4. Contributions Received		4,400,005
	5. Benefits and Refunds Paid		(8,615,709)
	6. Transfers/Misc. Adjustments		(459,553)
	7. Expected Int. $[.0775 \times (C3) + ((1.0775)^{\frac{1}{2}} - 1) \times ((C4) + (C5) + (C6))]$		13,775,670
	8. Expected Assets as of $6/30/09$ [(C3) + (C4) + (C5) + (C6) + (C7)]		189,145,008
	9. Receivables as of 6/30/09		736,362
	10. Expected Assets Including Receivables		189,881,370
	11. Actual Actuarial Value of Assets as of 6/30/09		186,300,413
	12. Asset (Gain)/Loss [(C10) - (C11)]	\$	3,580,957
D	Liability (Gain)/Loss for the Year		
	1. Total (Gain)/Loss (A9)	\$	2,237,678
	2. Contribution (Gain)/Loss (B7)		242,343
	3. Asset (Gain)/Loss (C12)		3,580,957
	4. Liability (Gain)/Loss [(D1) - (D2) - (D3)]	\$	(1,585,622)
De	velopment of the (Gain)/Loss Balance as of 6/30/09**		
	1. (Gain)/Loss Balance as of 6/30/08	\$	8,754,806
	2. Payment Made on the Balance during 2008/2009		395,241
	3. Interest through 6/30/09 [.0775 x (1) - ((1.0775) ^{1/2} - 1) x (2)]		663,468
	4. Scheduled (Gain)/Loss Balance as of 6/30/09 [(1) - (2) + (3)]	\$	9,023,033

^{*} The Total (Gain)/Loss for 2008/2009 is being amortized over a fixed and declining 30-year period and is shown as "Special (Gain)/Loss" in the "Schedule of Amortization Bases" on the following page.

^{**} This (Gain)/Loss represents the 6/30/09 balance of the accumulation of (gains)/losses through 6/30/08 and is amortized using a rolling 30-year period. Gains and losses incurred after 6/30/2011 will again accumulate to this base.

Schedule of Amortization Bases

There is a two year lag between the Valuation Date and the Contribution Fiscal Year.

- The assets, liabilities and funded status of the plan are measured as of the valuation date (June 30, 2009).
- The employer contribution rate determined by the valuation is for the fiscal year beginning two years after the valuation date (fiscal year 2011/2012).

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

The Unfunded Liability 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 Unfunded Liability is rolled forward each year by subtracting the expected Payment on the Unfunded Liability for the fiscal year and adjusting for interest. The Expected Payment on the Unfunded Liability for a fiscal year is equal to the Expected Employer Contribution for the fiscal year minus the Expected Normal Cost for the year. The Employer Contribution Rate for the first fiscal year is determined by the actuarial valuation two years ago and the rate for the second year is from the actuarial valuation one year ago. The Normal Cost Rate for each of the two fiscal years is assumed to be the same as the rate determined by the current valuation. All expected dollar amounts are determined by multiplying the rate by the expected payroll for the applicable fiscal year, based on payroll as of the valuation date.

							Amounts	OF FISCAL 2011/2	2012
									Payment
		Amorti-		Expected		Expected		Scheduled	as Percent -
	Date	zation	Balance	Payment	Balance	Payment	Balance	Payment for	age of
Reason for Base	Established	Period	6/30/09	2009/2010	6/30/10	2010/2011	6/30/11	2011-2012	Payroll
FRESH START	06/30/05	26	\$(830,881)	\$(51,668)	\$(841,641)	\$(53,347)	\$(851,493)	\$(55,081)	(0.181%)
BENEFIT CHANGE	06/30/06	17	\$49,853	\$3,891	\$49,678	\$4,018	\$49,357	\$4,148	0.014%
BENEFIT CHANGE	06/30/06	16	\$794,175	\$64,232	\$789,049	\$66,319	\$781,359	\$68,474	0.225%
(GAIN)/LOSS	06/30/08	30	\$9,023,032	\$427,468	\$9,278,594	\$557,189	\$9,419,308	\$565,639	1.855%
ASSUMPTION CHANGE	06/30/09	20	\$4,975,370	\$106,971	\$5,249,922	\$110,447	\$5,542,144	\$418,605	1.373%
SPECIAL (GAIN)/LOSS	06/30/09	30	\$2,237,678	\$0	\$2,411,098	\$0	\$2,597,958	\$156,010	0.512%
PAYMENT (GAIN)/LOSS	06/30/09	30	\$(292,431)	\$1,693	\$(316,852)	\$(25,190)	\$(315,260)	\$(18,932)	(0.062%)
TOTAL			\$15,956,796	\$552,587	\$16,619,848	\$659,436	\$17,223,373	\$1,138,863	3.735%

The special (gain)/loss base is the first of three special bases that will be established for the gain/loss that is recognized in this and the next two annual valuations. Unlike the gain/loss occurring in previous and subsequent years, the gain/loss recognized in the 2009, 2010, and 2011 annual valuations will be amortized over fixed and declining 30 year periods so that these annual gain/losses will be fully paid off in 30 years.

Reconciliation of Required Employer Contributions

	Percentage of Projected Payroll	Estimated \$ Based on Projected Payroll
1. Contribution for 7/1/10 – 6/30/11 (from prior year annual report)	9.617%	\$ 2,896,954
2. Effect of changes since the prior year annual valuation		
a) Effect of unexpected changes in demographics and financial results	0.503%	153,346
b) Effect of plan changes	0.000%	0
c) Effect of changes in Assumptions	0.999%	304,607
d) Effect of change in payroll	-	35,424
e) Effect of elimination of amortization base	0.000%	0
f) Effect of changes due to Fresh Start	0.000%	0
g) Net effect of the changes above [Sum of (a) through (f)]	1.502%	493,377
3. Contribution for 7/1/11 – 6/30/12 [(1)+(2g)]	11.119%	3,390,331

The contribution actually paid (item 1) may be different if a prepayment of unfunded actuarial liability is made or a plan change became effective after the prior year's actuarial valuation was performed.

Employer Contribution Rate History

The table below provides a recent history of the employer contribution rates for your plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made in the middle of the year.

Required By Valuation

Fiscal	Employer		Total Employer
Year	Normal Cost	Unfunded Rate	Contribution Rate
2007 - 2008	7.619%	0.787%	8.406%
2008 - 2009	7.750%	1.648%	9.398%
2009 - 2010	7.742%	1.574%	9.316%
2010 - 2011	7.775%	1.842%	9.617%
2011 - 2012	7.384%	3.735%	11.119%

Funding History

The Funding History below shows the recent history of the actuarial accrued liability, the market value of assets, the actuarial value of assets, funded ratios and the annual covered payroll. The Actuarial Value of Assets is used to establish funding requirements and the funded ratio on this basis represents the progress toward fully funding future benefits for current plan participants. The funded ratio based on the Market Value of Assets is an indicator of the short-term solvency of the plan.

Valuation Date	Accrued Liability		Actuarial Value of Assets (AVA)	Market Value of Assets (MVA)	Fund Rat		Annual Covered Payroll
		-		Tiodette (iii 11)	AVA	MVA	
 06/30/05	\$ 153,987,696	\$	150,755,216	\$ 155,038,271	97.9%	100.7% \$	20,760,738
06/30/06	165,705,830		159,644,335	169,488,464	96.3%	102.3%	21,991,547
06/30/07	177,245,794		170,706,434	198,721,015	96.3%	112.1%	24,683,994
06/30/08	189,350,854		180,794,207	185,322,471	95.5%	97.9%	27,366,887
06/30/09	202,257,209		186,300,413	136,167,010	92.1%	67.3%	27,701,536

SUMMARY OF ASSETS

- RECONCILIATION OF THE MARKET VALUE OF ASSETS
- DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS
- ASSET ALLOCATION

Reconciliation of the Market Value of Assets

1.	Market Value of Assets as of 6/30/08 Including Receivables	\$ 185,322,471
2.	Receivables for Service Buybacks as of 6/30/08	749,612
3.	Market Value of Assets as of 6/30/08	184,572,859
4.	Employer Contributions	2,287,524
5.	Employee Contributions	2,112,481
6.	Benefit Payments to Retirees and Beneficiaries	(8,381,613)
7.	Refunds	(234,096)
8.	Lump Sum Payments	0
9.	Transfers and Miscellaneous Adjustments	(459,553)
10.	Investment Return	(44,466,953)
11.	Market Value of Assets as of 6/30/09	\$ 135,430,648
12.	Receivables for Service Buybacks as of 6/30/09	736,362
13.	Market Value of Assets as of 6/30/09 Including Receivables	\$ 136,167,010

Development of the Actuarial Value of Assets

1.	Actuarial Value of Assets as of 6/30/08 Used For Rate Setting Purposes	\$	180,794,207
2.	Receivables for Service Buybacks as of 6/30/08		749,612
3.	Actuarial Value of Assets as of 6/30/08		180,044,595
4.	Employer Contributions		2,287,524
5.	Employee Contributions		2,112,481
6.	Benefit Payments to Retirees and Beneficiaries		(8,381,613)
7.	Refunds		(234,096)
8.	Lump Sum Payments		0
9.	Transfers and Miscellaneous Adjustments		(459,553)
10.	Expected Investment Income at 7.75%	_	13,775,670
11.	Expected Actuarial Value of Assets	\$	189,145,008
12.	Market Value of Assets as of 6/30/09	\$	135,430,648
13.	Preliminary Actuarial Value of Assets [(11) + ((12) – (11)) / 15]		185,564,051
14.	Maximum Actuarial Value of Assets (140% of (12))		189,602,907
15.	Minimum Actuarial Value of Assets (60% of (12))		81,258,389
16.	Actuarial Value of Assets {Lesser of [(14), Greater of ((13), (15))]}		185,564,051
17.	Actuarial Value to Market Value Ratio		136.8%
18.	Receivables for Service Buybacks as of 6/30/09		736,362
19.	Actuarial Value of Assets as of 6/30/09 Used for Rate Setting Purposes	\$	186,300,413

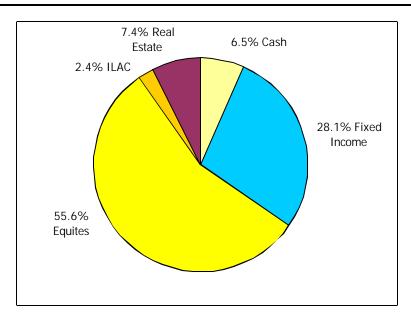
Asset Allocation

The starting point and most important element of CalPERS' successful return on investment is the asset allocation or diversification among stocks, bonds, cash and other investments. Asset allocation is not an asset-only or liability-only decision. All factors, including liabilities, benefit payments, operating expenses, and employer and member contributions are taken into account in determining the appropriate asset allocation mix. The goal is to maximize returns at a prudent level of risk which presents an ever-changing balancing act between market volatility and long-term goals.

CalPERS follows a strategic asset allocation policy that identifies the percentage of funds to be invested in each asset class.

The asset allocation and market value of assets shown below reflect the values of the Public Employees Retirement Fund (PERF) in its entirety as of June 30, 2009. The assets for CITY OF FULLERTON MISCELLANEOUS PLAN are part of the Public Employees Retirement Fund (PERF) and are invested accordingly.

(A) Asset Class	(B) Market Value (\$ Billion)	(C) Current Allocation	(D) Target ¹
1) Total Cash Equivalents	12.0	6.5%	0.0%
2) Total Global Fixed Income	51.6	28.1%	19.0%
3) Total Equities	102.0	55.6%	66.0%
4) Inflation Linked (ILAC)	4.4	2.4%	5.0%
5) Total Real Estate	<u>13.5</u>	<u>7.4%</u>	<u>10.0%</u>
Total Fund	183.5 ²	100.0%	100.0%



¹ Target allocation effective January 1, 2009.

² Differences between investment values above and the values on the Summary of Investments on page 26 of the Comprehensive Annual Financial Report (Year Ended June 30, 2009) are due to differences in reporting methods. The Summary of Investments includes Net Investment Receivables/Payables.

SUMMARY OF PARTICIPANT DATA

- SUMMARY OF VALUATION DATA
- ACTIVE MEMBERS
- TRANSFERRED AND TERMINATED MEMBERS
- RETIRED MEMBERS AND BENEFICIARIES

Summary of Valuation Data

	June 30, 2008	Jur	ne 30, 2009
1. Active Members			
a) Counts	465		470
b) Average Attained Age	44.47		44.94
c) Average Entry Age to Rate Plan	33.13		33.17
d) Average Years of Service	11.34		11.77
e) Average Annual Covered Pay	\$ 58,854	\$	58,939
f) Annual Covered Payroll	27,366,887		27,701,536
g) Projected Annual Payroll for Contribution Year	30,122,817		30,491,166
h) Present Value of Future Payroll	230,194,336	2	220,983,926
2. Transferred Members			
a) Counts	216		216
b) Average Attained Age	44.53		44.96
c) Average Years of Service	3.90		3.96
d) Average Annual Covered Pay	\$ 88,685	\$	93,174
3. Terminated Members			
a) Counts	123		129
b) Average Attained Age	42.33		41.94
c) Average Years of Service	3.33		2.99
d) Average Annual Covered Pay	\$ 43,217	\$	42,435
4. Retired Members and Beneficiaries			
a) Counts	495		498
b) Average Attained Age	71.40		71.51
c) Average Annual Benefits	\$ 16,908	\$	17,331
5. Active to Retired Ratio	0.94		0.94

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.

Active Members

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

Distribution of Active Members by Age and Service

Years of Service at Valuation Date

Attained							
Age	0-4	5-9	10-14	15-19	20-25	25+	Total
15-24	26	0	0	0	0	0	26
25-29	38	8	1	0	0	0	47
30-34	22	10	4	1	0	0	37
35-39	26	12	5	3	0	0	46
40-44	27	8	8	8	15	1	67
45-49	23	13	6	11	8	12	73
50-54	12	14	5	7	12	18	68
55-59	9	11	7	4	12	19	62
60-64	3	2	4	7	7	9	32
65 and over	0	3	4	1	3	1	12
All Ages	186	81	44	42	57	60	470

Distribution of Average Annual Salaries by Age and Service

Years of Service at Valuation Date

Attained							
Age	0-4	5-9	10-14	15-19	20-25	25+	Average
15-24	\$34,078	\$0	\$0	\$0	\$0	\$0	\$34,078
25-29	43,726	53,451	63,008	0	0	0	45,792
30-34	60,886	55,390	54,995	57,684	0	0	58,677
35-39	51,203	62,792	59,453	58,271	0	0	55,584
40-44	64,546	49,216	56,773	49,414	63,028	98,904	60,154
45-49	47,877	58,257	70,100	77,875	71,503	67,816	61,939
50-54	51,664	75,156	95,122	60,279	53,105	71,105	65,983
55-59	44,631	60,534	85,831	70,129	61,623	92,263	71,635
60-64	22,963	41,801	66,888	60,350	78,741	61,999	60,990
65 and over	0	30,138	41,316	33,992	51,733	58,802	41,973
All Ages	\$49,209	\$58,990	\$67,370	\$62,937	\$63,168	\$76,040	\$58,939

Transferred and Terminated Members

Distribution of Transfers to Other CalPERS Plans by Age and Service

Years of Service at Valuation Date

Attained								Average
Age	0-4	5-9	10-14	15-19	20-25	25+	Total	Salary
15-24	2	0	0	0	0	0	2	\$88,026
25-29	17	1	1	0	0	0	19	69,154
30-34	14	1	0	0	0	0	15	69,050
35-39	14	3	0	0	0	0	17	82,076
40-44	32	8	0	1	0	0	41	97,185
45-49	48	7	6	2	0	0	63	98,791
50-54	19	5	4	3	3	0	34	101,063
55-59	7	5	3	1	0	0	16	94,716
60-64	3	2	1	1	0	1	8	122,025
65 and over	1	0	0	0	0	0	1	68,286
All Ages	157	32	15	8	3	1	216	93,174

Distribution of Terminated Participants with Funds on Deposit by Age and Service

Years of Service at Valuation Date

Attained	0-4	5-9	10-14	15 10	20-25	25.	Total	Average
Age	0-4	5-9	10-14	15-19	20-25	25+	Total	Salary
15-24	7	0	0	0	0	0	7	\$26,571
25-29	18	0	0	0	0	0	18	42,380
30-34	14	0	1	0	0	0	15	44,386
35-39	16	2	1	0	0	0	19	36,509
40-44	16	2	2	1	0	0	21	49,995
45-49	8	6	1	1	0	0	16	52,440
50-54	10	5	1	0	0	0	16	44,380
55-59	3	2	1	0	0	0	6	39,259
60-64	6	2	0	0	0	0	8	27,971
65 and over	1	2	0	0	0	0	3	35,841
All Ages	99	21	7	2	0	0	129	42,435

Retired Members and Beneficiaries

Distribution of Retirees and Beneficiaries by Age and Retirement Type*

Attained Age	Service Retirement	Non- Industrial Disability	Industrial Disability	Non- Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0
35-39	0	0	0	0	0	1	1
40-44	0	0	0	0	0	0	0
45-49	0	4	2	0	0	2	8
50-54	8	6	1	1	0	2	18
55-59	40	4	3	0	0	2	49
60-64	70	6	0	0	0	8	84
65-69	72	4	2	0	0	9	87
70-74	45	0	1	0	0	11	57
75-79	47	1	0	0	0	12	60
80-84	38	1	0	0	0	14	53
85 and Over	50	4	0	0	0	26	80
All Ages	370	30	9	1	0	87	497

Distribution of Average Annual Amounts for Retirees and Beneficiaries by Age and Retirement Type*

		Non-		Non-		Death	
Attained	Service	Industrial	Industrial	Industrial	Industrial	After	
Age	Retirement	Disability	Disability	Death	Death	Retirement	Average
Under 30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30-34	0	0	0	0	0	0	0
35-39	0	0	0	0	0	6,770	6,770
40-44	0	0	0	0	0	0	0
45-49	0	8,727	196	0	0	1,324	4,743
50-54	9,211	12,057	47	15,512	0	1,413	9,134
55-59	17,235	14,032	662	0	0	11,730	15,734
60-64	23,274	10,174	0	0	0	20,789	22,101
65-69	23,396	18,233	390	0	0	8,167	21,054
70-74	22,318	0	1,028	0	0	11,672	19,890
75-79	14,524	10,067	0	0	0	16,772	14,899
80-84	16,484	22,961	0	0	0	13,843	15,909
85 and Over	16,769	11,385	0	0	0	7,780	13,578
All Ages	\$19,536	\$12,531	\$470	\$15,512	\$0	\$11,509	\$17,355

Retired Members and Beneficiaries (continued)

Distribution of Retirees and Beneficiaries by Years Retired and Retirement Type*

Years Retired	Service Retirement	Non- Industrial Disability	Industrial Disability	Non- Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	100	4	3	1	0	30	138
5-9	97	10	1	0	0	24	132
10-14	57	6	2	0	0	12	77
15-19	47	6	2	0	0	2	57
20-24	33	2	1	0	0	2	38
25-29	23	0	0	0	0	8	31
30 and Over	13	2	0	0	0	9	24
All Years	370	30	9	1	0	87	497

Distribution of Average Annual Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type*

		Non-		Non-		Death	
Years	Service	Industrial	Industrial	Industrial	Industrial	After	A
Retired	Retirement	Disability	Disability	Death	Death	Retirement	Average
Under 5 Yrs	\$22,956	\$10,843	\$698	\$15,512	\$0	\$12,499	\$19,794
5-9	22,820	12,827	691	0	0	13,045	20,118
10-14	15,271	15,637	106	0	0	10,219	14,118
15-19	20,957	12,295	574	0	0	9,295	18,921
20-24	14,830	10,021	89	0	0	10,854	13,979
25-29	10,826	0	0	0	0	10,473	10,735
30 and Over	9,651	8,323	0	0	0	7,390	8,692
All Years	\$19,536	\$12,531	\$470	\$15,512	\$0	\$11,509	\$17,355

^{*} Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the total counts may not match information on page 23 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

APPENDICES

- APPENDIX A STATEMENT OF ACTUARIAL DATA, METHODS AND ASSUMPTIONS
- APPENDIX B SUMMARY OF PRINCIPAL PLAN PROVISIONS
- APPENDIX C GASB STATEMENT NO. 27
- APPENDIX D INVESTMENT RETURN SENSITIVITY ANALYSIS
- APPENDIX E GLOSSARY OF ACTUARIAL TERMS

APPENDIX A

• STATEMENT OF ACTUARIAL DATA, METHODS AND ASSUMPTIONS

Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation, except that data does not always contain the latest salary information for former members now in reciprocal systems and does not recognize the potential for unusually large salary deviation in certain cases such as elected officials. Therefore, salary information in these cases may not be accurate. These situations are relatively infrequent, however, and when they do occur, they generally do not have a material impact on the employer contribution rates.

Actuarial Methods

Funding Method

The actuarial funding method used for the Retirement Program is the Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percent of pay in each year from the age of hire (entry age) to the assumed retirement age. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits, for active members beyond the assumed retirement age, and for members entitled to deferred benefits, is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

The excess of the total actuarial accrued liability over the actuarial value of plan assets is called the unfunded actuarial accrued liability. Funding requirements are determined by adding the normal cost and an amortization of the unfunded liability as a level percentage of assumed future payrolls. All changes in liability due to plan amendments, changes in actuarial assumptions, or changes in actuarial methodology are amortized separately over a 20-year period. All gains or losses are tracked and amortized over a rolling 30-year period with the exception of special gains and losses in fiscal years 2008-2009, 2009-2010 and 2010-2011. Each of these years special gains or losses will be isolated and amortized over fixed and declining 30 year periods (as opposed to the current rolling 30 year amortization). If a plan's accrued liability exceeds the actuarial value of assets, the annual contribution with respect to the total unfunded liability may not be less than the amount produced by a 30-year amortization of the unfunded liability.

In addition, in February 2010 the CalPERS Board adopted a resolution requiring additional contributions for any plan or pool if their cash flows hamper adequate funding progress by preventing the expected funded status on a market value of assets basis of the plan to either:

- Increase by at least 15% by June 30, 2043; or
- Reach a level of 75% funded by June 30, 2043

The necessary additional contribution will be obtained by changing the amortization period of the gains and losses prior to 2009 to a period which will result in the satisfaction of the above criteria. CalPERS actuaries will reassess the criteria above when performing each future valuation to determine whether or not additional contributions are necessary.

An exception to the funding rules above is used whenever the application of such rules results in inconsistencies. In these cases a "fresh start" approach is used. This simply means that the current unfunded actuarial liability is projected and amortized over a set number of years. As mentioned above, if the annual contribution on the total unfunded liability was less than the amount produced by a 30-year amortization of the unfunded liability, the plan actuary would implement a 30-year fresh start. However, in the case of a 30-year fresh start, just the unfunded liability not already in the (gain)/loss base (which already is amortized over 30 years) will go into the new fresh start base. In addition, a fresh start is needed in the following situations:

- 1) when a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability); or
- 2) when there are excess assets, rather than an unfunded liability. In this situation a 30-year fresh start is used, unless a longer fresh start is needed to avoid a negative total rate.

It should be noted that the actuary may choose to use a fresh start under other circumstances. In all cases, the fresh start period is set by the actuary at what he deems appropriate, and will not be less than five years nor greater than 30 years.

Asset Valuation Method

In order to dampen the effect of short term market value fluctuations on employer contribution rates, the following asset smoothing technique is used. First an Expected Value of Assets is computed by bringing forward the prior year's Actuarial Value of Assets and the contributions received and benefits paid during the year at the assumed actuarial rate of return. The Actuarial Value of Assets is then computed as the Expected Value of Assets plus one-fifteenth of the difference between the actual Market Value of Assets and the Expected Value of Assets as of the valuation date. However in no case will the Actuarial Value of Assets be less than 80% or greater than 120% of the actual Market Value of Assets.

In June 2009, the CalPERS Board adopted changes to the asset smoothing method in order to phase in over a three year period the impact of the -24% investment loss experienced by CalPERS in fiscal year 2008-2009. The following changes were adopted:

- Increase the corridor limits for the actuarial value of assets from 80%-120% of market value to 60%-140% of market value on June 30, 2009
- Reduce the corridor limits for the actuarial value of assets to 70%-130% of market value on June 30, 2010
- Return to the 80%-120% of market value corridor limits for the actuarial value of assets on June 30, 2011 and thereafter

Miscellaneous

Superfunded Status

If a rate plan is superfunded (actuarial value of assets exceeds the present value of benefits), as of the most recently completed annual valuation, the employer may cover their employees' member contributions (both taxed and tax-deferred) using their employer assets during the fiscal year for which this valuation applies. This would entail transferring assets within the Public Employees' Retirement Fund (PERF) from the employer account to the member accumulated contribution accounts. This change was implemented effective January 1, 1999 pursuant to Chapter 231 (Assembly Bill 2099) which added Government Code Section 20816.

Superfunded status applies only to individual plans, not risk pools. For rate plans within a risk pool, actuarial value of assets is the sum of the rate plan's side fund plus the rate plan's pro-rata share of non-side fund assets.

Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 were not taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results.

Internal Revenue Code Section 401(a)(17)

The limitations on compensation imposed by Internal Revenue Code Section 401(a)(17) were taken into account in this valuation. Each year the impact of any changes in this compensation limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base.

Actuarial Assumptions

Economic Assumptions

Investment Return

7.75% compounded annually (net of expenses). This assumption is used for all plans.

Salary Growth

Annual increases vary by category, entry age, and duration of service. The assumed increases are shown below.

Public Agency Miscellaneous						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1445	0.1265	0.1005			
1	0.1215	0.1075	0.0875			
2	0.1035	0.0935	0.0775			
3	0.0905	0.0825	0.0695			
4	0.0805	0.0735	0.0635			
5	0.0725	0.0675	0.0585			
10	0.0505	0.0485	0.0435			
15	0.0455	0.0435	0.0385			
20	0.0415	0.0395	0.0355			
25	0.0385	0.0385	0.0355			
30	0.0385	0.0385	0.0355			

Public Agency Fire						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1075	0.1075	0.1045			
1	0.0975	0.0965	0.0875			
2	0.0895	0.0855	0.0725			
3	0.0825	0.0775	0.0625			
4	0.0765	0.0705	0.0535			
5	0.0715	0.0645	0.0475			
10	0.0535	0.0485	0.0375			
15	0.0435	0.0415	0.0365			
20	0.0395	0.0385	0.0355			
25	0.0375	0.0375	0.0355			
30	0.0375	0.0375	0.0355			

Public Agency Police						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1115	0.1115	0.1115			
1	0.0955	0.0955	0.0955			
2	0.0835	0.0835	0.0805			
3	0.0745	0.0725	0.0665			
4	0.0675	0.0635	0.0575			
5	0.0615	0.0575	0.0505			
10	0.0475	0.0445	0.0365			
15	0.0435	0.0415	0.0355			
20	0.0395	0.0385	0.0355			
25	0.0375	0.0365	0.0355			
30	0.0375	0.0365	0.0355			

Public Agency County Peace Officers						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1315	0.1315	0.1315			
1	0.1115	0.1085	0.1055			
2	0.0965	0.0915	0.0865			
3	0.0845	0.0795	0.0735			
4	0.0755	0.0695	0.0635			
5	0.0685	0.0625	0.0555			
10	0.0485	0.0445	0.0405			
15	0.0435	0.0405	0.0385			
20	0.0395	0.0385	0.0365			
25	0.0375	0.0365	0.0355			
30	0.0375	0.0365	0.0355			

- The Miscellaneous salary scale is used for Local Prosecutors.
- The Police salary scale is used for Other Safety, Local Sheriff, and School Police.

Overall Payroll Growth

3.25% compounded annually (used in projecting the payroll over which the unfunded liability is amortized). This assumption is used for all plans.

Inflation

3.00% compounded annually. This assumption is used for all plans.

Non-valued Potential Additional Liabilities

The potential liability loss for a cost-of-living increase exceeding the 3% inflation assumption, and any potential liability loss from future member service purchases are not reflected in the valuation.

Miscellaneous Loading Factors

Credit for Unused Sick Leave

Final Average Salary is increased by 1% for those plans with the provision providing Credit for Unused Sick Leave.

Conversion of Employer Paid Member Contributions (EPMC)

Final Average Salary is increased by the Employee Contribution Rate for those plans with the provision providing for the Conversion of Employer Paid Member Contributions (EPMC) during the final compensation period.

Norris Decision (Best Factors)

Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of "Best Factors" in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. No loading is necessary for employees hired after July 1, 1982.

Demographic Assumptions

Pre-Retirement Mortality

Non-Industrial Death Rates vary by age and gender. Industrial Death rates vary by age. See sample rates in table below. The non-industrial death rates are used for all plans. The industrial death rates are used for Safety Plans (except for Local Prosecutor safety members where the corresponding Miscellaneous Plan does not have the Industrial Death Benefit).

		trial Death -Related)	Industrial Death (Job-Related)
Age	Male	Female	Male and Female
20	0.00047	0.00016	0.00003
25	0.00050	0.00026	0.00007
30	0.00053	0.00036	0.00010
35	0.00067	0.00046	0.00012
40	0.00087	0.00065	0.00013
45	0.00120	0.00093	0.00014
50	0.00176	0.00126	0.00015
55	0.00260	0.00176	0.00016
60	0.00395	0.00266	0.00017
65	0.00608	0.00419	0.00018
70	0.00914	0.00649	0.00019
75	0.01220	0.00878	0.00020
80	0.01527	0.01108	0.00021

Miscellaneous Plans usually have Industrial Death rates set to zero unless the agency has specifically contracted for Industrial Death benefits. If so, each Non-Industrial Death rate shown above will be split into two components: 99% will become the Non-Industrial Death rate and 1% will become the Industrial Death rate.

Post-Retirement Mortality

Rates vary by age, type of retirement and gender. See sample rates in table below. These rates are used for all plans.

	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industriall (Job-R	y Disabled elated)
Age	Male	Female	Male	Female	Male	Female
50	0.00239	0.00125	0.01632	0.01245	0.00443	0.00356
55	0.00474	0.00243	0.01936	0.01580	0.00563	0.00546
60	0.00720	0.00431	0.02293	0.01628	0.00777	0.00798
65	0.01069	0.00775	0.03174	0.01969	0.01388	0.01184
70	0.01675	0.01244	0.03870	0.03019	0.02236	0.01716
75	0.03080	0.02071	0.06001	0.03915	0.03585	0.02665
80	0.05270	0.03749	0.08388	0.05555	0.06926	0.04528
85	0.09775	0.07005	0.14035	0.09577	0.11799	0.08017
90	0.16747	0.12404	0.21554	0.14949	0.16575	0.13775
95	0.25659	0.21556	0.31025	0.23055	0.26108	0.23331
100	0.34551	0.31876	0.45905	0.37662	0.40918	0.35165
105	0.58527	0.56093	0.67923	0.61523	0.64127	0.60135
110	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Marital Status

For active members, a percentage married upon retirement is assumed according to the following table.

Member Category	Percent Married
Miscellaneous Member	85%
Local Police	90%
Local Fire	90%
Other Local Safety	90%
School Police	90%

Age of Spouse

It is assumed that female spouses are 3 years younger than male spouses. This assumption is used for all plans.

Terminated Members

It is assumed that terminated members refund immediately if non-vested. Terminated members who are vested are assumed to follow the same service retirement pattern as active members but with a load to reflect the expected higher rates of retirement, especially at lower ages. The following table shows the load factors that are applied to the service retirement assumption for active members to obtain the service retirement pattern for separated vested members:

Age	Load Factor
50	450%
51	250%
52 through 56	200%
57 through 60	150%
61 through 64	125%
65 and above	100% (no change)

Termination with Refund

Rates vary by entry age and service for Miscellaneous Plans. Rates vary by service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1742	0.1674	0.1606	0.1537	0.1468	0.1400
1	0.1545	0.1477	0.1409	0.1339	0.1271	0.1203
2	0.1348	0.1280	0.1212	0.1142	0.1074	0.1006
3	0.1151	0.1083	0.1015	0.0945	0.0877	0.0809
4	0.0954	0.0886	0.0818	0.0748	0.0680	0.0612
5	0.0212	0.0193	0.0174	0.0155	0.0136	0.0116
10	0.0138	0.0121	0.0104	0.0088	0.0071	0.0055
15	0.0060	0.0051	0.0042	0.0032	0.0023	0.0014
20	0.0037	0.0029	0.0021	0.0013	0.0005	0.0001
25	0.0017	0.0011	0.0005	0.0001	0.0001	0.0001
30	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001
35	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Public Agency Safety						
Duration of Service	Fire	Police	County Peace Officer			
0	0.0710	0.1013	0.0997			
1	0.0554	0.0636	0.0782			
2	0.0398	0.0271	0.0566			
3	0.0242	0.0258	0.0437			
4	0.0218	0.0245	0.0414			
5	0.0029	0.0086	0.0145			
10	0.0009	0.0053	0.0089			
15	0.0006	0.0027	0.0045			
20	0.0005	0.0017	0.0020			
25	0.0003	0.0012	0.0009			
30	0.0003	0.0009	0.0006			
35	0.0003	0.0009	0.0006			

The Police Termination and Refund rates are used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Termination with Vested Benefits

Rates vary by entry age and service for Miscellaneous Plans. Rates vary by service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous						
Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	
5	0.0656	0.0597	0.0537	0.0477	0.0418	
10	0.0530	0.0466	0.0403	0.0339	0.0000	
15	0.0443	0.0373	0.0305	0.0000	0.0000	
20	0.0333	0.0261	0.0000	0.0000	0.0000	
25	0.0212	0.0000	0.0000	0.0000	0.0000	
30	0.0000	0.0000	0.0000	0.0000	0.0000	
35	0.0000	0.0000	0.0000	0.0000	0.0000	

Public Agency Safety										
Duration of			County Peace							
Service	Fire	Police	Officer							
5	0.0162	0.0163	0.0265							
10	0.0061	0.0126	0.0204							
15	0.0058	0.0082	0.0130							
20	0.0053	0.0065	0.0074							
25	0.0047	0.0058	0.0043							
30	0.0045	0.0056	0.0030							
35	0.0000	0.0000	0.0000							

- When a member is eligible to retire, the termination with vested benefits probability is set to zero.
- After termination with vested benefits, a miscellaneous member is assumed to retire at age 59 and a safety member at age 54.
- The Police Termination with vested benefits rates are used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Non-Industrial (Not Job-Related) Disability

Rates vary by age and gender for Miscellaneous Plans.

Rates vary by age and category for Safety Plans.

	Miscellaneous		Fire	Police	County Peace Officer	
Age	ge Male Female		Male and Female	Male and Female	Male and Female	
20	0.0001	0.0001	0.0001	0.0001	0.0001	
25	0.0001	0.0001	0.0001	0.0001	0.0001	
30	0.0002	0.0002	0.0001	0.0002	0.0001	
35	0.0006	0.0009	0.0001	0.0003	0.0004	
40	0.0015	0.0016	0.0001	0.0004	0.0007	
45	0.0025	0.0024	0.0002	0.0005	0.0013	
50	0.0033	0.0031	0.0005	0.0008	0.0018	
55	0.0037	0.0031	0.0010	0.0013	0.0010	
60	0.0038	0.0025	0.0015	0.0020	0.0006	

- The Miscellaneous Non-Industrial Disability rates are used for Local Prosecutors.
- The Police Non-Industrial Disability rates are used for Other Safety, Local Sheriff, and School Police.

Industrial (Job-Related) Disability

Rates vary by age and category.

Age	Fire	Police	County Peace Officer
20	0.0002	0.0007	0.0003
25	0.0012	0.0032	0.0015
30	0.0025	0.0064	0.0031
35	0.0037	0.0097	0.0046
40	0.0049	0.0129	0.0063
45	0.0061	0.0161	0.0078
50	0.0074	0.0192	0.0101
55	0.0721	0.0668	0.0173
60	0.0721	0.0668	0.0173

- The Police Industrial Disability rates are used for Local Sheriff and Other Safety.
- Fifty Percent of the Police Industrial Disability rates are used for School Police.
- One Percent of the Police Industrial Disability rates are used for Local Prosecutors.
- Normally, rates are zero for Miscellaneous Plans unless the agency has specifically contracted for Industrial Disability benefits. If so, each miscellaneous non-industrial disability rate will be split into two components: 50% will become the Non-Industrial Disability rate and 50% will become the Industrial Disability rate.

Service Retirement

Public Agency Miscellaneous 2% @ 60

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.011	0.015	0.018	0.021	0.023	0.026	
51	0.009	0.013	0.016	0.018	0.020	0.023	
52	0.013	0.018	0.022	0.025	0.028	0.031	
53	0.011	0.016	0.019	0.022	0.025	0.028	
54	0.015	0.021	0.025	0.028	0.032	0.036	
55	0.023	0.032	0.039	0.044	0.049	0.055	
56	0.019	0.027	0.032	0.037	0.041	0.046	
57	0.025	0.035	0.042	0.048	0.054	0.060	
58	0.030	0.042	0.051	0.058	0.065	0.073	
59	0.035	0.049	0.060	0.068	0.076	0.085	
60	0.062	0.087	0.105	0.119	0.133	0.149	
61	0.079	0.110	0.134	0.152	0.169	0.190	
62	0.132	0.186	0.225	0.255	0.284	0.319	
63	0.126	0.178	0.216	0.244	0.272	0.305	
64	0.122	0.171	0.207	0.234	0.262	0.293	
65	0.173	0.243	0.296	0.334	0.373	0.418	
66	0.114	0.160	0.194	0.219	0.245	0.274	
67	0.159	0.223	0.271	0.307	0.342	0.384	
68	0.113	0.159	0.193	0.218	0.243	0.273	
69	0.114	0.161	0.195	0.220	0.246	0.276	
70	0.127	0.178	0.216	0.244	0.273	0.306	

Public Agency Miscellaneous 2% @ 55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.015	0.020	0.024	0.029	0.033	0.039	
51	0.013	0.016	0.020	0.024	0.027	0.033	
52	0.014	0.018	0.022	0.027	0.030	0.036	
53	0.017	0.022	0.027	0.032	0.037	0.043	
54	0.027	0.034	0.041	0.049	0.056	0.067	
55	0.050	0.064	0.078	0.094	0.107	0.127	
56	0.045	0.057	0.069	0.083	0.095	0.113	
57	0.048	0.061	0.074	0.090	0.102	0.122	
58	0.052	0.066	0.080	0.097	0.110	0.131	
59	0.060	0.076	0.092	0.111	0.127	0.151	
60	0.072	0.092	0.112	0.134	0.153	0.182	
61	0.089	0.113	0.137	0.165	0.188	0.224	
62	0.128	0.162	0.197	0.237	0.270	0.322	
63	0.129	0.164	0.199	0.239	0.273	0.325	
64	0.116	0.148	0.180	0.216	0.247	0.294	
65	0.174	0.221	0.269	0.323	0.369	0.439	
66	0.135	0.171	0.208	0.250	0.285	0.340	
67	0.133	0.169	0.206	0.247	0.282	0.336	
68	0.118	0.150	0.182	0.219	0.250	0.297	
69	0.116	0.147	0.179	0.215	0.246	0.293	
70	0.138	0.176	0.214	0.257	0.293	0.349	

Public Agency Miscellaneous 2.5% @ 55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.026	0.033	0.040	0.048	0.055	0.062	
51	0.021	0.026	0.032	0.038	0.043	0.049	
52	0.021	0.026	0.032	0.038	0.043	0.049	
53	0.026	0.033	0.040	0.048	0.055	0.062	
54	0.043	0.054	0.066	0.078	0.089	0.101	
55	0.088	0.112	0.136	0.160	0.184	0.208	
56	0.055	0.070	0.085	0.100	0.115	0.130	
57	0.061	0.077	0.094	0.110	0.127	0.143	
58	0.072	0.091	0.111	0.130	0.150	0.169	
59	0.083	0.105	0.128	0.150	0.173	0.195	
60	0.088	0.112	0.136	0.160	0.184	0.208	
61	0.083	0.105	0.128	0.150	0.173	0.195	
62	0.121	0.154	0.187	0.220	0.253	0.286	
63	0.105	0.133	0.162	0.190	0.219	0.247	
64	0.105	0.133	0.162	0.190	0.219	0.247	
65	0.143	0.182	0.221	0.260	0.299	0.338	
66	0.105	0.133	0.162	0.190	0.219	0.247	
67	0.105	0.133	0.162	0.190	0.219	0.247	
68	0.105	0.133	0.162	0.190	0.219	0.247	
69	0.105	0.133	0.162	0.190	0.219	0.247	
70	0.125	0.160	0.194	0.228	0.262	0.296	

Public Agency Miscellaneous 2.7% @ 55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.028	0.035	0.043	0.050	0.058	0.065	
51	0.022	0.028	0.034	0.040	0.046	0.052	
52	0.022	0.028	0.034	0.040	0.046	0.052	
53	0.028	0.035	0.043	0.050	0.058	0.065	
54	0.044	0.056	0.068	0.080	0.092	0.104	
55	0.091	0.116	0.140	0.165	0.190	0.215	
56	0.061	0.077	0.094	0.110	0.127	0.143	
57	0.063	0.081	0.098	0.115	0.132	0.150	
58	0.074	0.095	0.115	0.135	0.155	0.176	
59	0.083	0.105	0.128	0.150	0.173	0.195	
60	0.088	0.112	0.136	0.160	0.184	0.208	
61	0.085	0.109	0.132	0.155	0.178	0.202	
62	0.124	0.158	0.191	0.225	0.259	0.293	
63	0.107	0.137	0.166	0.195	0.224	0.254	
64	0.107	0.137	0.166	0.195	0.224	0.254	
65	0.146	0.186	0.225	0.265	0.305	0.345	
66	0.107	0.137	0.166	0.195	0.224	0.254	
67	0.107	0.137	0.166	0.195	0.224	0.254	
68	0.107	0.137	0.166	0.195	0.224	0.254	
69	0.107	0.137	0.166	0.195	0.224	0.254	
70	0.129	0.164	0.199	0.234	0.269	0.304	

Public Agency Miscellaneous 3%@ 60

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.026	0.033	0.040	0.048	0.055	0.062		
51	0.021	0.026	0.032	0.038	0.043	0.049		
52	0.019	0.025	0.030	0.035	0.040	0.046		
53	0.025	0.032	0.038	0.045	0.052	0.059		
54	0.039	0.049	0.060	0.070	0.081	0.091		
55	0.083	0.105	0.128	0.150	0.173	0.195		
56	0.055	0.070	0.085	0.100	0.115	0.130		
57	0.061	0.077	0.094	0.110	0.127	0.143		
58	0.072	0.091	0.111	0.130	0.150	0.169		
59	0.080	0.102	0.123	0.145	0.167	0.189		
60	0.094	0.119	0.145	0.170	0.196	0.221		
61	0.088	0.112	0.136	0.160	0.184	0.208		
62	0.127	0.161	0.196	0.230	0.265	0.299		
63	0.110	0.140	0.170	0.200	0.230	0.260		
64	0.110	0.140	0.170	0.200	0.230	0.260		
65	0.149	0.189	0.230	0.270	0.311	0.351		
66	0.110	0.140	0.170	0.200	0.230	0.260		
67	0.110	0.140	0.170	0.200	0.230	0.260		
68	0.110	0.140	0.170	0.200	0.230	0.260		
69	0.110	0.140	0.170	0.200	0.230	0.260		
70	0.132	0.168	0.204	0.240	0.276	0.312		

Public Agency Fire $\frac{1}{2}$ @ 55 and 2% @ 55

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
50	0.01588	56	0.11079
51	0.00000	57	0.00000
52	0.03442	58	0.09499
53	0.01990	59	0.04409
54	0.04132	60	1.00000
55	0.07513		

Public Agency Police ½ @ 55 and 2% @ 55

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
50	0.02552	56	0.06921
51	0.00000	57	0.05113
52	0.01637	58	0.07241
53	0.02717	59	0.07043
54	0.00949	60	1.00000
55	0.16674		

Public Agency Police 2%@ 50

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.014	0.014	0.014	0.014	0.025	0.045		
51	0.012	0.012	0.012	0.012	0.023	0.040		
52	0.026	0.026	0.026	0.026	0.048	0.086		
53	0.052	0.052	0.052	0.052	0.096	0.171		
54	0.070	0.070	0.070	0.070	0.128	0.227		
55	0.090	0.090	0.090	0.090	0.165	0.293		
56	0.064	0.064	0.064	0.064	0.117	0.208		
57	0.071	0.071	0.071	0.071	0.130	0.232		
58	0.063	0.063	0.063	0.063	0.115	0.205		
59	0.140	0.140	0.140	0.140	0.174	0.254		
60	0.140	0.140	0.140	0.140	0.172	0.251		
61	0.140	0.140	0.140	0.140	0.172	0.251		
62	0.140	0.140	0.140	0.140	0.172	0.251		
63	0.140	0.140	0.140	0.140	0.172	0.251		
64	0.140	0.140	0.140	0.140	0.172	0.251		
65	1.000	1.000	1.000	1.000	1.000	1.000		

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 2%@50

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.007	0.007	0.007	0.007	0.010	0.015	
51	0.008	0.008	0.008	0.008	0.013	0.019	
52	0.017	0.017	0.017	0.017	0.027	0.040	
53	0.047	0.047	0.047	0.047	0.072	0.107	
54	0.064	0.064	0.064	0.064	0.098	0.147	
55	0.087	0.087	0.087	0.087	0.134	0.200	
56	0.078	0.078	0.078	0.078	0.120	0.180	
57	0.090	0.090	0.090	0.090	0.139	0.208	
58	0.079	0.079	0.079	0.079	0.122	0.182	
59	0.073	0.073	0.073	0.073	0.112	0.168	
60	0.114	0.114	0.114	0.114	0.175	0.262	
61	0.114	0.114	0.114	0.114	0.175	0.262	
62	0.114	0.114	0.114	0.114	0.175	0.262	
63	0.114	0.114	0.114	0.114	0.175	0.262	
64	0.114	0.114	0.114	0.114	0.175	0.262	
65	1.000	1.000	1.000	1.000	1.000	1.000	

Public Agency Police 3%@ 55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.019	0.019	0.019	0.019	0.040	0.060	
51	0.024	0.024	0.024	0.024	0.049	0.074	
52	0.024	0.024	0.024	0.024	0.051	0.077	
53	0.059	0.059	0.059	0.059	0.121	0.183	
54	0.069	0.069	0.069	0.069	0.142	0.215	
55	0.116	0.116	0.116	0.116	0.240	0.363	
56	0.076	0.076	0.076	0.076	0.156	0.236	
57	0.058	0.058	0.058	0.058	0.120	0.181	
58	0.076	0.076	0.076	0.076	0.157	0.237	
59	0.094	0.094	0.094	0.094	0.193	0.292	
60	0.141	0.141	0.141	0.141	0.290	0.438	
61	0.094	0.094	0.094	0.094	0.193	0.292	
62	0.118	0.118	0.118	0.118	0.241	0.365	
63	0.094	0.094	0.094	0.094	0.193	0.292	
64	0.094	0.094	0.094	0.094	0.193	0.292	
65	1.000	1.000	1.000	1.000	1.000	1.000	

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 3%@55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.012	0.012	0.012	0.018	0.028	0.033	
51	0.008	0.008	0.008	0.012	0.019	0.022	
52	0.018	0.018	0.018	0.027	0.042	0.050	
53	0.043	0.043	0.043	0.062	0.098	0.114	
54	0.057	0.057	0.057	0.083	0.131	0.152	
55	0.092	0.092	0.092	0.134	0.211	0.246	
56	0.081	0.081	0.081	0.118	0.187	0.218	
57	0.100	0.100	0.100	0.146	0.230	0.268	
58	0.081	0.081	0.081	0.119	0.187	0.219	
59	0.078	0.078	0.078	0.113	0.178	0.208	
60	0.117	0.117	0.117	0.170	0.267	0.312	
61	0.078	0.078	0.078	0.113	0.178	0.208	
62	0.098	0.098	0.098	0.141	0.223	0.260	
63	0.078	0.078	0.078	0.113	0.178	0.208	
64	0.078	0.078	0.078	0.113	0.178	0.208	
65	1.000	1.000	1.000	1.000	1.000	1.000	

Public Agency Police 3%@ 50

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.070	0.070	0.070	0.131	0.193	0.249	
51	0.050	0.050	0.050	0.095	0.139	0.180	
52	0.061	0.061	0.061	0.116	0.171	0.220	
53	0.069	0.069	0.069	0.130	0.192	0.247	
54	0.071	0.071	0.071	0.134	0.197	0.255	
55	0.090	0.090	0.090	0.170	0.250	0.322	
56	0.069	0.069	0.069	0.130	0.191	0.247	
57	0.080	0.080	0.080	0.152	0.223	0.288	
58	0.087	0.087	0.087	0.164	0.242	0.312	
59	0.090	0.090	0.090	0.170	0.251	0.323	
60	0.135	0.135	0.135	0.255	0.377	0.485	
61	0.090	0.090	0.090	0.170	0.251	0.323	
62	0.113	0.113	0.113	0.213	0.314	0.404	
63	0.090	0.090	0.090	0.170	0.251	0.323	
64	0.090	0.090	0.090	0.170	0.251	0.323	
65	1.000	1.000	1.000	1.000	1.000	1.000	

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 3%@50

			Duration of	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.034	0.034	0.034	0.048	0.068	0.080
51	0.046	0.046	0.046	0.065	0.092	0.109
52	0.069	0.069	0.069	0.097	0.138	0.163
53	0.084	0.084	0.084	0.117	0.166	0.197
54	0.103	0.103	0.103	0.143	0.204	0.241
55	0.127	0.127	0.127	0.177	0.252	0.298
56	0.121	0.121	0.121	0.169	0.241	0.285
57	0.101	0.101	0.101	0.141	0.201	0.238
58	0.118	0.118	0.118	0.165	0.235	0.279
59	0.100	0.100	0.100	0.140	0.199	0.236
60	0.150	0.150	0.150	0.210	0.299	0.354
61	0.100	0.100	0.100	0.140	0.199	0.236
62	0.125	0.125	0.125	0.175	0.249	0.295
63	0.100	0.100	0.100	0.140	0.199	0.236
64	0.100	0.100	0.100	0.140	0.199	0.236
65	1.000	1.000	1.000	1.000	1.000	1.000

APPENDIX B

- SUMMARY OF MAJOR BENEFIT OPTIONS
- DESCRIPTIONS OF PRINCIPAL PLAN PROVISIONS

Summary of Major Benefit Options

Shown below is a summary of the major <u>optional</u> benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in the following section of this Appendix.

	Coverage Gro
	70001
Benefit Provision	
Benefit Formula Social Security Coverage Full/Modified	2.0% @ 55 No Full
Final Average Compensation Period	12 mos.
Sick Leave Credit	Yes
Non-Industrial Disability	Standard
Industrial Disability	No
Pre-Retirement Death Benefits Optional Settlement 2W 1959 Survivor Benefit Level Special Alternate (firefighters)	Yes Level 4 No No
Post-Retirement Death Benefits Lump Sum Survivor Allowance (PRSA)	\$500 Yes
COLA	2%
Employee Contributions Contractual Employer Paid Contractual Employee Cost Sharing	No 0%

DESCRIPTION OF PRINCIPAL PLAN PROVISIONS

The following is a description of the principal plan provisions used in calculating costs and liabilities. We have indicated whether a plan provision is standard or optional. Standard benefits are applicable to all members while optional benefits vary among employers. Optional benefits that apply to a single period of time, such as Golden Handshakes, have not been included. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements)

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*.

• The *benefit factor* depends on the benefit formula specified in your agency's contract. The table below shows the factors for each of the available formulas. Factors vary by the member's age at retirement. Listed are the factors for retirement at whole year ages:

Miscellaneous Plan Formulas

2% at 60	2% at 55	2.5% at 55	2.7% at 55	3% at 60
1.092%	1.426%	2.0%	2.0%	2.0%
1.156%	1.522%	2.1%	2.14%	2.1%
1.224%	1.628%	2.2%	2.28%	2.2%
1.296%	1.742%	2.3%	2.42%	2.3%
1.376%	1.866%	2.4%	2.56%	2.4%
1.460%	2.0%	2.5%	2.7%	2.5%
1.552%	2.052%	2.5%	2.7%	2.6%
1.650%	2.104%	2.5%	2.7%	2.7%
1.758%	2.156%	2.5%	2.7%	2.8%
1.874%	2.210%	2.5%	2.7%	2.9%
2.0%	2.262%	2.5%	2.7%	3.0%
2.134%	2.314%	2.5%	2.7%	3.0%
2.272%	2.366%	2.5%	2.7%	3.0%
2.418%	2.418%	2.5%	2.7%	3.0%
	1.092% 1.156% 1.224% 1.296% 1.376% 1.460% 1.552% 1.650% 1.758% 1.874% 2.0% 2.134% 2.272%	1.092% 1.426% 1.156% 1.522% 1.224% 1.628% 1.296% 1.742% 1.376% 1.866% 1.460% 2.0% 1.552% 2.052% 1.650% 2.104% 1.758% 2.156% 1.874% 2.210% 2.0% 2.262% 2.134% 2.314% 2.272% 2.366%	1.092% 1.426% 2.0% 1.156% 1.522% 2.1% 1.224% 1.628% 2.2% 1.296% 1.742% 2.3% 1.376% 1.866% 2.4% 1.460% 2.0% 2.5% 1.552% 2.052% 2.5% 1.650% 2.104% 2.5% 1.758% 2.156% 2.5% 1.874% 2.210% 2.5% 2.0% 2.262% 2.5% 2.134% 2.314% 2.5% 2.272% 2.366% 2.5%	1.092% 1.426% 2.0% 2.0% 1.156% 1.522% 2.1% 2.14% 1.224% 1.628% 2.2% 2.28% 1.296% 1.742% 2.3% 2.42% 1.376% 1.866% 2.4% 2.56% 1.460% 2.0% 2.5% 2.7% 1.552% 2.052% 2.5% 2.7% 1.650% 2.104% 2.5% 2.7% 1.874% 2.210% 2.5% 2.7% 2.0% 2.262% 2.5% 2.7% 2.134% 2.314% 2.5% 2.7% 2.272% 2.366% 2.5% 2.7%

Safety Plan Formulas

Retirement	1/2 at 55 *	2% at 55	2% at 50	3% at 55	3% at 50
Age					
50	1.783%	1.426%	2.0%	2.40%	3.0%
51	1.903%	1.522%	2.14%	2.52%	3.0%
52	2.035%	1.628%	2.28%	2.64%	3.0%
53	2.178%	1.742%	2.42%	2.76%	3.0%
54	2.333%	1.866%	2.56%	2.88%	3.0%
55 & Up	2.5%	2.0%	2.7%	3.0%	3.0%

^{*} For this formula, the benefit factor also varies by entry age. The factors shown are for members with an entry age of 35 or larger. If entry age is less than 35, then the age 55 benefit factor is 50% divided by the difference between age 55 and entry age. The benefit factor for ages prior to age 55 is the same proportion of the age 55 benefit factor as in the above table.

- The years of service is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. An agency may contract for an optional benefit where any unused sick leave accumulated at the time of retirement will be converted to credited service at a rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 36 or 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The standard benefit is 36 months. Employers have the option of providing a final compensation equal to the highest 12 consecutive months.
- For employees covered by Social Security, the Modified formula is the standard benefit. Under this type of formula, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400). Employers may contract for the Full benefit with Social Security that will eliminate the offset applicable to the final compensation. For employees not covered by Social Security, the Full benefit is paid with no offsets. Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 if members are not covered by Social Security or \$513 if members are covered by Social Security.
- The Miscellaneous Service Retirement benefit is not capped. The Safety Service Retirement benefit is capped at 90% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively employed by any CalPERS employer at the time of disability in order to be eligible for this benefit.

Standard Benefit

The standard Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- service is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years
 of service; or
- service is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Improved Benefit

Employers have the option of providing the improved Non-Industrial Disability Retirement benefit. This benefit provides a monthly allowance equal to 30% of final compensation for the first 5 years of service, plus 1% for each additional year of service to a maximum of 50% of final compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job Related) Disability Retirement

All safety members have this benefit. For miscellaneous members, employers have the option of providing this benefit. An employer may choose to provide the Increased benefit option or the Improved benefit option.

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes disabled while working, where disabled means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described below.

Standard Benefit

The standard Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation.

Increased Benefit (75% of Final Compensation)

The increased Industrial Disability Retirement benefit is a monthly allowance equal to 75% of final compensation for total disability.

Improved Benefit (50% to 90% of Final Compensation)

The improved Industrial Disability Retirement benefit is a monthly allowance equal to the Workman's Compensation Appeals Board permanent disability rate percentage (if 50% or greater, with a maximum of 90%) times the final compensation.

For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return of accumulated member contributions with respect to employment in this group. With the standard or increased benefit, a member may also choose to receive the annuitization of the accumulated member contributions.

If a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit.

Post-Retirement Death Benefit

Standard Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$500 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Improved Lump Sum Payment

Employers have the option of providing an improved lump sum death benefit of \$600, \$2,000, \$3,000, \$4,000 or \$5,000.

Form of Payment for Retirement Allowance

Standard Form of Payment

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. Such reduction takes into account the amount to be provided to the beneficiary and the probable duration of payments (based on the ages of the member and beneficiary) made subsequent to the member's death.

Improved Form of Payment (Post Retirement Survivor Allowance)

Employers have the option to contract for the post retirement survivor allowance.

For retirement allowances with respect to service subject to the modified formula, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. For retirement allowances with respect to service subject to the full or supplemental formula, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit \$ often referred to as post retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25% or 50% of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime. This benefit will not be discontinued in the event the spouse remarries.

The remaining 75% or 50% of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's death. Benefit options applicable to the option portion are the same as those offered with the standard form. The reduction is calculated in the same manner but is applied only to the option portion.

Pre-Retirement Death Benefits

Basic Death Benefit

This is a standard benefit.

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year, plus a lump sum in the amount of one month's salary for each completed year of current service, up to a maximum of six months' salary. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

1957 Survivor Benefit

This is a standard benefit.

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. An eligible survivor means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this 1957 Survivor benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. The total amount paid will be at least equal to the Basic Death benefit.

Optional Settlement 2W Death Benefit

This is an optional benefit.

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2W Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all

CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Optional Settlement 2W Death benefit.

Benefit

The Optional Settlement 2W Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Special Death Benefit

This is a standard benefit for safety members. An employer may elect to provide this benefit for miscellaneous members.

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

if 1 eligible child:
if 2 eligible children:
if 3 or more eligible children:
20.0% of final compensation
25.0% of final compensation

Alternate Death Benefit for Local Fire Members

This is an optional benefit available only to local fire members.

Eligibility

An employee's *eligible survivor(s)* may receive the Alternate Death benefit in lieu of the Basic Death Benefit or the 1957 Survivor Benefit if the member dies while actively employed and has at least 20 years of total CalPERS service. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 18.

Benefit

The Alternate Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) If the member has not yet attained age 50, the benefit is equal to that which would be payable if the member had retired at age 50, based on service credited at the time of death. The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Cost-of-Living Adjustments

Standard Benefit

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%.

Improved Benefit

Employers have the option of providing an improved cost -of-living adjustment of 3%, 4% or 5%.

The cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 80% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan.

Employee Contributions

Each employee contributes toward his or her retirement based upon the retirement formula. The standard employee contribution is as described below.

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$0 for full and supplemental formula members and \$133.33 for employees covered by the modified formula.

The percent contributed above the monthly compensation breakpoint depends upon the benefit formula, as shown in the table below.

Benefit Formula	Percent Contributed above the
	<u>Breakpoint</u>
Miscellaneous, 2% at 60	7%
Miscellaneous, 2% at 55	7%
Miscellaneous, 2.5% at 55	8%
Miscellaneous, 2.7% at 55	8%
Miscellaneous, 3% at 60	8%
Safety, 1/2 at 55	Varies by entry age
Safety, 2% at 55	7%
Safety, 2% at 50	9%
Safety, 3% at 55	9%
Safety, 3% at 50	9%

The employer may choose to "pick-up" these contributions for the employees (Employer Paid Member Contributions or EPMC). An employer may also include Employee Cost Sharing in the contract, where employees contribute an additional percentage of compensation.

• Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 and the contribution rate is 6% if members are not covered by Social Security. If members are covered by Social Security the offset is \$513 and the contribution rate is 5%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 Survivor Benefit

This is a pre-retirement death benefit available only to members not covered by Social Security. Any agency joining CalPERS subsequent to 1993 was required to provide this benefit if the members were not covered by Social Security. The benefit is optional for agencies joining CalPERS prior to 1994. Levels 1, 2 and 3 are now closed. Any new agency or any agency wishing to add this benefit or increase the current level must choose the 4th or Indexed Level.

This benefit is not included in the results presented in this valuation. More information on this benefit is abailable on the CalPERS website at www.calpers.ca.gov.

APPENDIX C

• GASB STATEMENT NO. 27

MISCELLANEOUS PLAN of the CITY OF FULLERTON Information for Compliance with GASB Statement No. 27

Under GASB 27, an employer reports an annual pension cost (APC) equal to the annual required contribution (ARC) plus an adjustment for the cumulative difference between the APC and the employer's actual plan contributions for the year. The cumulative difference is called the net pension obligation (NPO). The ARC for the period July 1, 2011 to June 30, 2012 has been determined by an actuarial valuation of the plan as of June 30, 2009. The contribution rate for the indicated period is 11.119% of payroll. In order to calculate the dollar value of the ARC for inclusion in financial statements prepared as of June 30, 2012, this contribution rate, as modified by any amendments for the year, would be multiplied by the payroll of covered employees that was actually paid during the period July 1, 2011 to June 30, 2012. The employer and the employer's auditor are responsible for determining the NPO and the APC.

Note: If an agency elects the Annual Lump Sum Prepayment Option, the ARC for the period July 1, 2011 through June 30, 2012 is \$3,266,130.

A summary of principal assumptions and methods used to determine the ARC is shown below.

Retirement Program

Valuation Date June 30, 2009

Actuarial Cost Method Entry Age Normal Cost Method

Amortization Method Level Percent of Payroll

Average Remaining Period 27 Years as of the Valuation Date

Asset Valuation Method 15 Year Smoothed Market

Actuarial Assumptions

Investment Rate of Return 7.75% (net of administrative expenses)

Projected Salary Increases 3.55% to 14.45% depending on Age, Service, and type of employment

Inflation 3.00% Payroll Growth 3.25%

Individual Salary Growth A merit scale varying by duration of employment coupled with an

assumed annual inflation growth of 3.00% and an annual production

growth of 0.25%.

Initial unfunded liabilities are amortized over a closed period that depends on the plan's date of entry into CalPERS. Subsequent plan amendments are amortized as a level percentage of pay over a closed 20-year period. Gains and losses that occur in the operation of the plan are amortized over a 30 year rolling period, which results in an amortization of about 6% of unamortized gains and losses each year. If the plan's accrued liability exceeds the actuarial value of plan assets, then the amortization payment on the total unfunded liability may not be lower than the payment calculated over a 30 year amortization period. More complete information on assumpt ions and methods is provided in Appendix A of this report. Appendix B contains a description of benefits included in the valuation.

The Schedule of Funding Progress below shows the recent history of the actuarial accrued liability, actuarial value of assets, their relationship and the relationship of the unfunded actuarial accrued liability to payroll.

Valuation Date	Accrued Liability	1	ctuarial Value f Assets (AVA)	Unfunded iability (UL)	Funded	led Ratios		Covered		UL As a % of
	(a)		(b)	(a)-(b)	(AVA) (b)/(a)	Market Value		Payroll (c)	Payroll [(a)-(b)]/(c)	
06/30/05	\$ 153,987,696	\$	150,755,216	\$ 3,232,480	97.9%	100.7%	\$	20,760,738	15.6%	
06/30/06	165,705,830		159,644,335	6,061,495	96.3%	102.3%		21,991,547	27.6%	
06/30/07	177,245,794		170,706,434	6,539,360	96.3%	112.1%		24,683,994	26.5%	
06/30/08	189,350,854		180,794,207	8,556,647	95.5%	97.9%		27,366,887	31.3%	
06/30/09	202.257.209		186.300.413	15.956.796	92.1%	67.3%		27.701.536	57.6%	

APPENDIX D

INVESTMENT RETURN SENSITIVITY ANALYSIS

Investment Return Sensitivity Analysis

The investment return realized during a fiscal year first affects the contribution rate for the fiscal year 2 years later. Specifically, the investment return for 2009-2010 will first be reflected in the June 30, 2010 actuarial valuation that will be used to set the 2012-2013 employer contribution rates and 2010-2011 investment return will first be reflected in the June 30, 2011 actuarial valuation that will be used to set the 2013-2014 employer contribution rates.

In July 2010, the investment return for fiscal year 2009-2010 was announced to be 11.4%. Note that this return is before administrative expenses and also does not reflect final investment return information for real estate and private equities. The final return information for these two asset classes is expected to be available later in October. The preliminary 11.4% return for the 2009-2010 fiscal year is good news as it would help reduce the impact of the -24% return in 2008-2009 and the impact of the three year phase in adopted by the Board in June 2009. For purposes of projecting future employer rates, we are assuming an 11% investment return for fiscal year 2009-2010.

Based on an 11% investment return for fiscal year 2009-2010 and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of the fiscal year 2012-2013, the effect on the 2012-2013 Employer Rate is as follows:

Estimated 2012-2013 Employer Rate

Estimated Increase in Employer Rate between 2011-2012 and 2012-2013

12.4%

As part of this report, a sensitivity analysis was performed to determine the effects of various investment returns during fiscal year 2010-2011 on the 2013-2014 employer rates. Once again, the projected 2013-2014 rate increases assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of fiscal year 2013-2014.

Five different 2010-2011 investment return scenarios were selected.

- The first scenario is what one would expect if the markets were to give us a 5th percentile return. The 5th percentile return corresponds to a -11% return for the 2010-2011 fiscal year.
- The second scenario is what one would expect if the markets were to give us a 25th percentile return. The 25th percentile return corresponds to a 0% return for the 2010-2011 fiscal year.
- The third scenario assumed the return for 2010-2011 would be our assumed 7.75% investment return which represents about a 47th percentile event.
- The fourth scenario is what one would expect if the markets were to give us a 75th percentile return. The 75th percentile return corresponds to a 16% return for the 2010-2011 fiscal year.
- Finally, the last scenario is what one would expect if the markets were to give us a 95th percentile return. The 95th percentile return corresponds to a 27% return for the 2010-2011 fiscal year.

The table below shows the estimated 2013-2014 contribution rate and the estimated increase over the 2012-2013 rate for your plan under the five different scenarios.

2010-2011 Investment	Estimated 2013-2014	Estimated Increase in Employer Rate
Return Scenario	Employer Rate	between 2012-2013 and 2013-2014
-11%	22.9%	10.5%
0%	18.8%	6.4%
7.75%	15.9%	3.5%
16%	12.9%	0.5%
27%	12.6%	0.2%

APPENDIX E

GLOSSARY OF ACTUARIAL TERMS

Glossary of Actuarial Terms

Accrued Liability (also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability)

The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.

Actuarial Assumptions

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include investment return, salary growth and inflation.

Actuarial Methods

Procedures employed by actuaries to achieve certain goals of a pension plan. These may include things such as funding method, setting the length of time to fund the past service liability and determining the actuarial value of assets.

Actuarial Valuation

The determination, as of a valuation date, of the normal cost, actuarial accrued liability, actuarial value of assets and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

Actuarial Value of Assets

The actuarial value of assets used for funding purposes is obtained through an asset smoothing technique where investment gains and losses are partially recognized in the year they are incurred, with the remainder recognized in subsequent years.

This method helps to dampen large fluctuations in the employer contribution rate.

Amortization Bases

Separate payment schedules for different portions of the unfunded liability. The total unfunded liability of a risk pool or non-pooled plan can be segregated by "cause", creating "bases" and each such base will be separately amortized and paid for over a specific period of time. This can be likened to a home mortgage that has 24 years of remaining payments and a second on that mortgage that has 10 years left. Each base or each mortgage note has its own terms (payment period, principal, etc.)

Generally in an actuarial valuation, the separate bases consist of changes in unfunded liability due to amendments, actuarial assumption changes, actuarial methodology changes, and gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

Amortization Period

The number of years required to pay off an amortization base.

Annual Required Contributions (ARC)

The employer's periodic required annual contributions to a defined benefit pension plan as set forth in GASB Statement No. 27, calculated in accordance with the plan assumptions. The ARC is determined by multiplying the employer contribution rate by the payroll reported to CalPERS for the applicable fiscal year. However, if this contribution is fully prepaid in a lump sum, then the dollar value of the ARC is equal to the Lump Sum Prepayment.

Entry Age

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan or risk pool. In most cases, this is age of the member on their date of hire.

Entry Age Normal Cost Method

An actuarial cost method designed to fund a member's total plan benefit over the course of his or her career. This method is designed to yield a rate expressed as a level percentage of payroll.

(The assumed retirement age less the entry age is the amount of time required to fund a member's total benefit. Generally, the older a member on the date of hire, the greater the entry age normal cost. This is mainly because there is less time to earn investment income to fund the future benefits.)

Fresh Start

A fresh start is the single amortization base created when multiple amortization bases are collapsed into one base and amortized over a new funding period.

Funded Status

A measure of how well funded a plan is. Or equivalently, how "on track" a plan is with respect to assets vs. accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets. A funded ratio based on the Actuarial Value of Assets indicates the progress toward fully funding the plan using the actuarial cost methods and assumptions. A funded ratio based on the Market Value of Assets indicates the short-term solvency of the plan.

GASB 27

Statement No. 27 of the Governmental Accounting Standards Board. The accounting standard governing a state or local governmental employer's accounting for pensions.

Lump Sum Contribution

A payment made by the employer to reduce or eliminate the unfunded liability.

Normal Cost

The annual cost of service acrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.

Pension Actuary

A person who is responsible for the calculations necessary to properly fund a pension plan.

Prepayment Contribution

A payment made by the employer to reduce or eliminate the year's required employer contribution.

Present Value of Benefits

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for *current* members.

Rolling Amortization Period

An amortization period that remains the same each year, rather than declining.

Superfunded

A condition existing when the actuarial value of assets exceeds the present value of benefits. When this condition exists on a given valuation date for a given plan, employee contributions for the rate year covered by that valuation may be waived.

Unfunded Liability or Unfunded Accrued Liability (UAL)

A plan with an actuarial value of assets below the accrued liability is said to have an unfunded liability and must temporarily increase contributions to get back on schedule.