

San Bernardino County Employees' Retirement Association

Actuarial Valuation and Review as of June 30, 2014

This report has been prepared at the request of the Board of Retirement to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Retirement and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.

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November 3, 2014

Board of Retirement San Bernardino County Employees' Retirement Association 348 West Hospitality Lane, Third Floor San Bernardino, CA 92415-0014

Dear Board Members:

We are pleased to submit this Actuarial Valuation and Review as of June 30, 2014. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2015-2016 and analyzes the preceding year's experience.

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

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in plan provisions or applicable law.

The actuarial calculations were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary. We are members of the American Academy of Actuaries and we meet the Oualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the Plan.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincerely,

Segal Consulting, a Member of the Segal Group, Inc.

Bv:

Paul Angelo, FSA, EA, MAAA, FCA Senior Vice President and Actuary

Vice President and Actuary

JZR/hv

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PURPOSE AND SCOPE

This report has been prepared by Segal Consulting to present an actuarial valuation of the San Bernardino County Employees' Retirement Association as of June 30, 2014. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- The benefit provisions of the Retirement Association, as administered by the Board of Retirement;
- > The characteristics of covered active members, terminated vested members, and retired members and beneficiaries as of June 30, 2014, provided by the Retirement Association;
- > The assets of the Plan as of June 30, 2014, provided by the Retirement Association;
- > Economic assumptions regarding future salary increases and investment earnings; and
- > Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

One of the general goals of an actuarial valuation is to establish contributions that fully fund the system's liabilities, and that, as a percentage of payroll, remain as level as possible for each generation of active members. Annual actuarial valuations measure the progress toward this goal, as well as test the adequacy of the contribution rates.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions to evaluate the Association's assets, liabilities and future contribution requirements. Our calculations are based upon member data and financial information provided to us by the Association's staff. This information has not been audited by us, but it has been reviewed and found to be consistent, both internally and with prior year's information.

Please note that the Actuarial Standards Board has adopted a revised Actuarial Standard of Practice (ASOP) No. 4 that provides guidelines for actuaries to follow when measuring pension obligations. For a plan such as that offered by the Retirement Association that may use undesignated excess earnings to provide supplemental benefits, the valuation report must indicate that the impact of any such future use of undesignated excess earnings on the future financial condition of the plan has not been explicitly measured or otherwise reflected in the valuation.

The contribution requirements are determined as a percentage of payroll. The Association's employer rates provide for both normal cost and a contribution to amortize any unfunded or overfunded actuarial accrued liabilities. In 2002, the Board of Retirement elected to amortize the Association's unfunded actuarial accrued liability as of June 30, 2002 over a declining 20-year period. Any change in unfunded actuarial accrued liability that arises due to actuarial gains or losses or due to changes in actuarial assumptions or methods at each valuation after June 30, 2002 is amortized over its own declining 20-year period. Effective with the June 30, 2012 valuation, any change in unfunded actuarial accrued liability that arises due to plan

amendments is amortized over its own declining 15-year period (with the exception of a change due to retirement incentives, which is amortized over its own declining period of up to 5 years).

The rates calculated in this report may be adopted by the Board for the fiscal year that extends from July 1, 2015 through June 30, 2016.

SIGNIFICANT ISSUES IN THIS VALUATION

The following key findings were the result of this actuarial valuation

Ref: Pg. 81

> The results of this valuation reflect changes in the actuarial assumptions as recommended by Segal and adopted by the Board for the June 30, 2014 valuation. These changes were documented in our Actuarial Experience Study and are also outlined in Section 4, Exhibit V of this report. These assumption changes resulted in an increase in the average employer contribution rate of 3.06% of payroll and an increase in the average member rate of 0.69% of payroll.

Ref: Pg. 16

> These assumption changes include that we no longer develop the investment return assumption as net of administrative expenses, and instead include an explicit administrative expense load of 0.60% of payroll. The administrative expense load has been allocated to both the employer and member rates based on the components of the total average contribution rate before expenses for the employer and member. This results in an explicit administrative expense load of 0.43% and 0.17% of payroll allocated to the employer and the member rates, respectively. All contribution rates shown in this report reflect these explicit loadings for administrative expenses.

Ref: Pg. 10

> The market value of assets earned a return of 12.20% for the July 1, 2013 to June 30, 2014 plan year. The actuarial value of assets earned a return of 7.26% for the same period due to the deferral of most of the current year investment gains and the recognition of prior investment gains and losses. This resulted in an actuarial loss when measured against the assumed rate of return for 2013-2014 of 7.75%. This actuarial investment loss increased the average employer contribution rate by 0.20% of payroll.

Ref: Pg. 70

> The ratio of the actuarial value of assets to actuarial accrued liabilities increased from 79.3% to 80.0%. The Association's Unfunded Actuarial Accrued Liability (UAAL) increased from \$1.88 billion as of June 30, 2013 to \$1.94 billion as of June 30, 2014. The increase in the UAAL is mainly due to the changes in actuarial assumptions, offset to some degree by lower than expected individual salary increases. A reconciliation of the Association's unfunded actuarial accrued liability is provided in Section 3, Exhibit I.

Ref: Pg. 56

> The recommended average employer contribution rate increased from 24.73% of payroll as of June 30, 2013 to 27.27% of payroll (see Charts 14a and 14b) in the June 30, 2014 valuation. This increase was mainly the result of the changes in actuarial assumptions, offset to some degree by lower than expected individual salary increases.

Ref: Pg. 21



Ref: Pg. 22

> The recommended average member contribution rate increased from 10.51% of payroll in the June 30, 2013 valuation to 11.06% of payroll in the June 30, 2014 valuation. This increase was mainly the result of changes in actuarial assumptions. A reconciliation of the recommended average member contribution rate is provided in Chart 16.

Ref: Pg. 5

- > As indicated in Section 2, Subsection B (see Chart 7) of this report, the total unrecognized investment gain as of June 30, 2014 is \$244 million as compared to an unrecognized <u>loss</u> of \$100 million in the June 30, 2013 valuation. This investment gain will be recognized in the determination of the actuarial value of assets for funding purposes over the next few years. This means that if the plan earns the assumed rate of investment return of 7.50% per year (net of investment expense) on a **market value** basis then the deferred gains will be recognized over the next few years as shown in the footnote on Chart 7.
- The June 30, 2014 unrecognized investment gain of \$244 million represents about 3% of the market value of assets. Unless offset by future investment losses or other unfavorable experience, the recognition of the \$244 million market gains is expected to have an impact on the Association's future funded ratio and the aggregate employer contribution rate. This potential impact may be illustrated as follows:
 - If the deferred gains were recognized immediately in the actuarial value of assets, the funded ratio would increase from 80.0% to 82.5%.
 - > If the deferred gains were recognized immediately in the actuarial value of assets, the aggregate employer contribution rate would decrease from 27.27% to 25.87%.
- > The actuarial report as of June 30, 2014 is based on financial information as of that date. Changes in the value of assets subsequent to that date are not reflected. Declines in asset values will increase the actuarial cost of the plan, while increases will decrease the actuarial cost of the plan.

Ref: Pg. 23

Ref: Pg. 69-71

> The Governmental Accounting Standards Board (GASB) approved two new Statements affecting the reporting of pension liabilities for accounting purposes. Statement 67 replaces Statement 25 and is for plan reporting. Statement 68 replaces Statement 27 and is for employer reporting. It is important to note that the new GASB rules only redefine pension expense for financial reporting purposes, and do not apply to contribution amounts for actual pension funding purposes. Employers and plans can still develop and adopt funding policies under current practices. Because Statement 68 is not effective until the fiscal year ending June 30, 2015 for SBCERA employer reporting, we have continued to include financial reporting information in this report in accordance with Statement 27. Financial reporting information for Statement 67 is provided in a separate report that follows this report.

<u>Impact of Future Experience on Contribution Rates</u>

Future contribution requirements may differ from those determined in the valuation because of:

- > Difference between actual experience and anticipated experience;
- Changes in actuarial assumptions or methods;
- > Changes in statutory provisions; and
- > Difference between the contribution rates determined by the valuation and those adopted by the Board.

Summary of Key Valuation Results (all dollar amounts in thousands)

| | Jun | June 30, 2014 | | June 30, 2013 | |
|-------------------------------------------------------------|------------|------------------------------|------------|------------------------------|--|
| Employer Contribution Rates: | | Estimated | | Estimated | |
| | Total Rate | Annual Amount ⁽¹⁾ | Total Rate | Annual Amount ⁽¹⁾ | |
| County General Tier 1 | 22.49% | \$181,987 | 20.24% | \$174,645 | |
| County General Tier 2 | 19.39 | 17,373 | 18.02 | 4,121 | |
| County Safety Tier 1 | 49.09 | 91,736 | 43.15 | 84,820 | |
| County Safety Tier 2 | 42.25 | 4,258 | 37.02 | 534 | |
| County combined | 26.95 | 295,354 | 24.37 | 264,120 | |
| Superior Court Tier 1 | 23.89 | 13,855 | 21.75 | 12,617 | |
| Superior Court Tier 2 | 20.79 | 585 | 19.53 | 39 | |
| South Coast Air Quality Management District (SCAQMD) Tier 1 | 30.19 | 20,178 | 27.76 | 20,930 | |
| South Coast Air Quality Management District (SCAQMD) Tier 2 | 26.43 | 331 | 25.36 | 58 | |
| Other General Tier 1 | 33.31 | 12,348 | 29.91 | 12,408 | |
| Other General Tier 2 | 29.77 | 817 | 25.44 | 94 | |
| Other Safety Tier 1 | 69.01 | 1,868 | 59.65 | 1,908 | |
| Other Safety Tier 2 | 58.61 | 293 | 50.73 | 61 | |
| All employers combined | 27.27 | 345,629 | 24.73 | 312,235 | |
| verage Member Contribution Rates ⁽²⁾ : | | Estimated | | Estimated | |
| | Total Rate | Annual Amount ⁽¹⁾ | Total Rate | Annual Amount ⁽¹⁾ | |
| County General Tier 1 | 11.00% | \$ 89,012 | 10.35% | \$89,307 | |
| County General Tier 2 | 8.40 | 7,526 | 7.88 | 1,802 | |
| County Safety Tier 1 | 12.98 | 24,256 | 12.06 | 23,706 | |
| County Safety Tier 2 | 15.22 | 1,534 | 13.75 | 198 | |
| County combined | 11.16 | 122,328 | 10.61 | 115,013 | |
| Superior Court Tier 1 | 10.86 | 6,298 | 10.26 | 5,952 | |
| Superior Court Tier 2 | 8.40 | 236 | 7.88 | 16 | |
| South Coast Air Quality Management District (SCAQMD) Tier 1 | 9.66 | 6,457 | 9.21 | 6,944 | |
| South Coast Air Quality Management District (SCAQMD) Tier 2 | 7.97 | 100 | 7.83 | 18 | |
| Other General Tier 1 | 11.06 | 4,100 | 10.53 | 4,368 | |
| Other General Tier 2 | 9.29 | 255 | 7.20 | 27 | |
| Other Safety Tier 1 | 13.82 | 374 | 13.05 | 418 | |
| Other Safety Tier 2 | 12.82 | 64 | 11.56 | 14 | |
| All employers combined | 11.06 | 140,212 | 10.51 | 132,770 | |

⁽¹⁾ Based on projected annual compensation for each valuation date.



The refundability factors as of June 30, 2014 are 1.08 for General Tier 1 and 1.03 for Safety Tier 1 compared to 1.10 for General Tier 1 and 1.03 for Safety Tier 1 as of June 30, 2013. See Appendix A and B for the individual member contribution rates.

Summary of Key Valuation Results (all dollar amounts in thousands)

| | June 30, 2014 | June 30, 2013 |
|----------------------------------------------------------|---------------|---------------|
| Funded Status: | | |
| Actuarial accrued liability (AAL) ⁽¹⁾ | \$9,694,825 | \$9,088,636 |
| Actuarial value of assets $(AVA)^{(2)(3)}$ | \$7,751,309 | \$7,204,918 |
| Market value of assets (MVA) | \$7,995,071 | \$7,104,554 |
| Funded ratio on AVA basis (AVA/AAL) | 79.95% | 79.27% |
| Funded ratio on MVA basis (MVA/AAL) | 82.47% | 78.17% |
| Unfunded actuarial accrued liability (UAAL) on AVA basis | \$1,943,516 | \$1,883,718 |
| Unfunded actuarial accrued liability (UAAL) on MVA basis | \$1,699,754 | \$1,984,082 |
| Key Assumptions: | | |
| Interest rate | 7.50% | 7.75% |
| Inflation rate | 3.25% | 3.50% |
| Salary increases (excluding merit) | 3.75% | 4.00% |

⁽¹⁾ Includes liabilities held for Survivor Benefit and Burial Allowance reserves. For June 30, 2014 those amounts are \$33,758 and \$825, respectively. The AAL for retirement plan benefits is \$9,660,242 as of June 30, 2014.



⁽²⁾ Includes assets held for Survivor Benefit and Burial Allowance reserves. For June 30, 2014 those amounts are \$53,391 and \$825, respectively. The AVA for retirement plan benefits is \$7,697,093 as of June 30, 2014.

The June 30, 2014 and June 30, 2013 actuarial value of assets <u>exclude</u> \$5.9 million and \$5.8 million, respectively. These amounts represent the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

SECTION 1: Valuation Summary for the San Bernardino County Employees' Retirement Association

| | June 30, 2014 | June 30, 2013 | Percentage Change |
|----------------------------------------------------------|-----------------|-----------------|-------------------|
| Active Members: | | | |
| Number of members | 19,497 | 19,401 | 0.5% |
| Average age | 44.7 | 44.8 | N/A |
| Average service | 11.3 | 11.3 | N/A |
| Projected total compensation | \$1,267,666,810 | \$1,262,751,964 | 0.4% |
| Average projected compensation | \$65,019 | \$65,087 | -0.1% |
| Retired Member and Beneficiaries: | | | |
| Number of members: | | | |
| Service retired | 7,681 | 7,296 | 5.3% |
| Disability retired | 1,474 | 1,444 | 2.1% |
| Beneficiaries ⁽¹⁾ | 1,463 | 1,433 | 2.1% |
| Total | 10,618 | 10,173 | 4.4% |
| Average age | 68.6 | 68.5 | N/A |
| Average monthly benefit ⁽²⁾ | \$3,128 | \$3,037 | 3.0% |
| Vested Terminated Members: | | | |
| Number of vested terminated members ⁽³⁾ | 4,356 | 3,921 | 11.1% |
| Average age | 45.8 | 45.8 | N/A |
| Summary of Financial Data (dollar amounts in thousands): | | | |
| Market value of assets | \$7,995,071 | \$7,104,554 | 12.5% |
| Return on market value of assets | 12.20% | 14.62% | N/A |
| Actuarial value of assets | \$7,751,309 | \$7,204,918 | 7.6% |
| Return on actuarial value of assets | 7.26% | 5.71% | N/A |
| Valuation value of assets ⁽⁴⁾ | \$7,756,386 | \$7,209,814 | 7.6% |
| Return on valuation value of assets | 7.26% | 5.71% | N/A |

⁽¹⁾ Excludes beneficiaries that are only receiving Survivor Benefit amounts.



⁽²⁾ Excludes monthly benefits for Supplemental Disability and Survivor Benefit.

⁽³⁾ Includes terminated members due a refund of member contributions plus accumulated interest.

⁽⁴⁾ The June 30, 2014 and June 30, 2013 valuation value of assets <u>include</u> \$5.9 million and \$5.8 million, respectively. These amounts represent the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

A. MEMBER DATA (ALL EMPLOYERS COMBINED)

The Actuarial Valuation and Review considers the number and demographic characteristics of covered members, including active members, vested terminated members, and beneficiaries. This section presents a summary of significant statistical data on these member groups.

More detailed information for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, B, and C.

A historical perspective of how the member population has changed over the past ten valuations can be seen in this chart.

CHART 1
Member Population: 2005 – 2014

| Year Ended June 30 | Active Members | Vested Terminated Members ⁽¹⁾ | Retired Members and Beneficiaries | Ratio of Non-Actives to Actives |
|-----------------------|-------------------|---------------------------------------------|--------------------------------------|---------------------------------|
| 2005 | 17,607 | 2,436 | 6,904 | 0.53 |
| 2006 | 18,347 | 2,774 | 7,261 | 0.55 |
| 2007 | 18,945 | 3,084 | 7,617 | 0.56 |
| 2008 | 19,414 | 3,430 | 7,971 | 0.59 |
| 2009 | 18,955 | 3,635 | 8,519 | 0.64 |
| 2010 | 19,520 | 3,635 | 8,843 | 0.64 |
| 2011 | 19,258 | 3,723 | 9,265 | 0.67 |
| 2012 | 19,306 | 3,782 | 9,736 | 0.70 |
| 2013 | 19,401 | 3,921 | 10,173 | 0.73 |
| 2014 | 19,497 | 4,356 | 10,618 | 0.77 |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



Active Members

Plan costs are affected by the age, years of service and compensation of active members. In this year's valuation, there were 19,497 active members with an average age of 44.7, average years of service of 11.3 years and average projected compensation of \$65,019. The 19,401 active members in the prior valuation had an average age of 44.8, average service of 11.3 years and average compensation of \$65,087.

Among the active members, there were none with unknown age information.

Inactive Members

In this year's valuation, there were 4,356 members with a vested right to a deferred or immediate vested benefit or entitled to a return of their member contributions versus 3,921 in the prior valuation.

These graphs show a distribution of active members by age and by years of service.

CHART 2
Distribution of Active Members by Age as of June 30, 2014

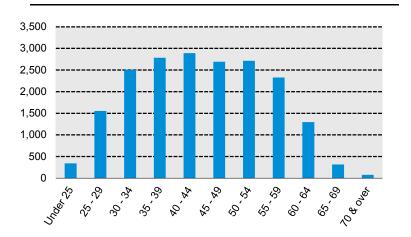
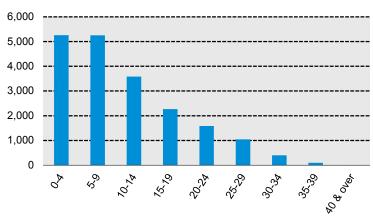


CHART 3
Distribution of Active Members by Years of Service as of June 30, 2014





Retired Members and Beneficiaries

As of June 30, 2014, 9,155 retired members and 1,463 beneficiaries were receiving total monthly benefits of \$33,217,549. For comparison, in the previous valuation, there were 8,740 retired members and 1,433 beneficiaries receiving monthly benefits of \$30,897,028. These monthly benefits exclude benefits for Supplemental Disability and Survivor Benefit.

These graphs show a distribution of the current retired members based on their monthly amount and age, by type of pension.



CHART 4 Distribution of Retired Members by Type and by Monthly Amount as of June 30, 2014

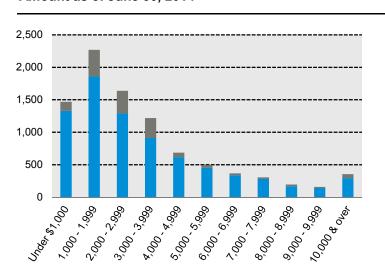
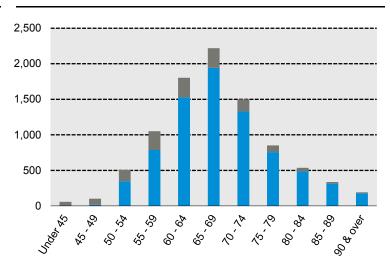


CHART 5 Distribution of Retired Members by Type and by Age as of June 30, 2014



B. FINANCIAL INFORMATION

Retirement plan funding anticipates that, over the long term, both contributions and net investment earnings (less investment fees) will be needed to cover benefit payments and administrative expenses.

Retirement plan assets change as a result of the net impact of these income and expense components. The adjustment toward market value shown in the chart is the "non-cash" earnings on investments implicitly included in the actuarial value of assets. Additional financial information, including a summary of these transactions for the valuation year, is presented in Section 3, Exhibits D, E and F.

The chart depicts the components of changes in the actuarial value of assets over the last ten years. Note: The first bar represents increases in assets during each year while the second bar details the decreases.

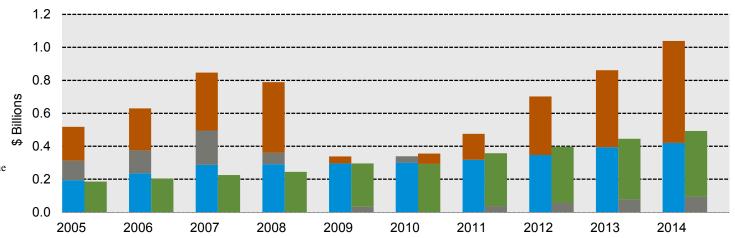
■ Adjustment toward market value

■ Benefits paid

■ Net interest and dividends

■ Contributions

CHART 6 Comparison of Increases and Decreases in the Actuarial Value of Assets for Years Ended June 30, 2005 – 2014





It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Board of Retirement has approved an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable.

The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

CHART 7 Actuarial Value of Assets

| 1. Market value of assets | | | \$7,995,070,539 |
|------------------------------------------------------|-----------------|---------------------|------------------|
| 2. Calculation of unrecognized return ⁽¹⁾ | Original Amount | Unrecognized Return | |
| (a) Year ended June 30, 2014 ⁽²⁾ | \$316,679,078 | \$253,343,262 | |
| (b) Year ended June 30, 2013 ⁽²⁾ | 425,010,217 | 255,006,130 | |
| (c) Year ended June 30, 2012 ⁽²⁾ | (444,010,514) | (177,604,206) | |
| (d) Combined net deferred loss ⁽³⁾ | (347,932,968) | (86,983,242) | |
| (e) Total unrecognized return ⁽⁴⁾ | | | \$243,761,944 |
| 3. Actuarial value of assets: (1) – (2e) | | | \$7,751,308,595 |
| Actuarial value as a percentage of market value | | | 97.0% |
| 5. Non-valuation reserves and designations: | | | |
| (a) Burial allowance reserve | | | <u>\$825,407</u> |
| 6. Preliminary Valuation value of assets (3) – (5a) | | | \$7,750,483,188 |
| 7. Valuation value of assets ⁽⁵⁾ | | | \$7,756,386,089 |

⁽¹⁾ Total return minus expected return on a market value basis.

⁽⁴⁾ Deferred return amount as of June 30, 2014 recognized in each of the next four years

| (i) | Amount Recognized during 2014/2015 | (\$27,447,486) |
|-------|------------------------------------|----------------|
| (ii) | Amount Recognized during 2015/2016 | 59,535,756 |
| (iii) | Amount Recognized during 2016/2017 | 148,337,859 |
| (iv) | Amount Recognized during 2017/2018 | 63,335,815 |
| | - | \$243 761 944 |

⁽⁵⁾ Includes \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.



⁽²⁾ Recognition at 20% per year over five years.

⁽³⁾ Net deferred loss as of June 30, 2011 was combined and will be recognized over four years.

CHART 8

Allocation of Valuation Value of Assets as of June 30, 2014

The calculation of the valuation value of assets from June 30, 2013 to June 30, 2014 by employer categories is provided below:

| | | General | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|---------------|---------------|
| | | County | Superior Court | SCAQMD | Others |
| 1 | Allocated Valuation Value of Assets as of Beginning of Plan Year | \$4,589,864,013 | \$241,738,166 | \$506,060,358 | \$162,313,504 |
| 2 | Allocated Valuation Value of Assets as of Beginning of Plan Year Including Future County Safety Contributions | 4,589,864,013 | 241,738,166 | 506,060,358 | 162,313,504 |
| 3 | Member Contributions | 57,233,912 | 2,120,554 | 4,133,700 | 1,053,374 |
| 4 | Employer Contributions | 180,588,154 | 15,263,069 | 20,614,021 | 13,850,741 |
| 5 | Benefit Payments Excluding Burial Allowance Reserve | 248,953,441 | 9,693,858 | 24,856,831 | 9,113,351 |
| 6 | Subtotal (Item 2+3+4-5) | \$4,578,732,637 | \$249,427,931 | \$505,951,248 | \$168,104,268 |
| 7 | Weighted Average Fund Balance | 4,584,298,323 | 245,583,049 | 506,005,803 | 165,208,886 |
| 8 | Earnings Allocated in Proportion to Item 7 | 332,734,560 | 17,824,749 | 36,726,584 | 11,991,084 |
| 9 | Allocated Valuation Value of Assets as of End of Plan Year | \$4,911,467,197 | \$267,252,680 | \$542,677,832 | \$180,095,352 |
| 10 | O Allocated Valuation Value of Assets as of End of Plan Year Including Future County Safety Contributions Note: Results may not add due to rounding. | \$4,911,467,197 | \$267,252,680 | \$542,677,832 | \$180,095,352 |



CHART 8 (continued)

Allocation of Valuation Value of Assets as of June 30, 2014

The calculation of the valuation value of assets from June 30, 2013 to June 30, 2014 by employer categories is provided below:

| | | Safety | | | | |
|---|---------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|---------------------------------------|--------------------------------|-----------------|
| | | County | Others | Withdrawn Employers ⁽¹⁾ | Survivor Benefit Reserve | Total |
| 1 | Allocated Valuation Value of Assets as of Beginning of Plan Year | \$1,623,784,101 | \$24,862,553 | \$5,373,805 | \$50,051,071 | \$7,204,047,571 |
| 2 | Allocated Valuation Value of Assets as of Beginning of Plan Year Including Future County Safety Contributions | 1,629,550,984 ⁽²⁾ | 24,862,553 | 5,373,805 | 50,051,071 | 7,209,814,454 |
| 3 | Member Contributions | 24,285,535 | 441,435 | 0 | 592,488 | 89,860,998 |
| 4 | Employer Contributions | 88,484,299 | 2,257,836 | 8,680,177 | 592,103 | 330,330,400 |
| 5 | Benefit Payments Excluding Burial Allowance Reserve | 100,961,373 | 1,953,660 | 460,981 | 1,784,482 | 397,777,978 |
| 6 | Subtotal (Item 2+3+4-5) | \$1,635,592,562 | \$25,608,164 | \$13,593,001 | \$49,451,180 | \$7,226,460,992 |
| 7 | Weighted Average Fund Balance | 1,629,688,332 | 25,235,359 | 9,483,403 | 49,751,126 | 7,215,254,281 |
| 8 | Earnings Allocated in Proportion to Item 7 | 118,284,979 | 1,831,616 | 688,318 | 3,940,307(3) | 524,022,197 |
| 9 | Allocated Valuation Value of Assets as of End of Plan Year | \$1,753,877,541 | \$27,439,780 | \$14,281,319 | \$53,391,487 | \$7,750,483,188 |
| | Allocated Valuation Value of Assets as of End of Plan Year Including Future County Safety Contributions | \$1,759,780,442 ⁽⁴⁾ | \$27,439,780 | \$14,281,319 | \$53,391,487 | \$7,756,386,089 |

⁽¹⁾ Withdrawn employers include San Bernardino International Airport Authority, Inland Valley Development Agency and Rim of the World Recreation & Park District.



⁽²⁾ Includes \$5.8 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

⁽³⁾ Actual Earnings for Survivor Benefit Reserve.

⁽⁴⁾ Includes \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

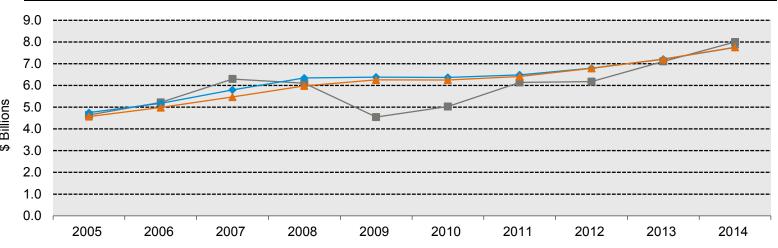
Note: Results may not add due to rounding.

The market value, actuarial value and valuation value of assets are representations of SBCERA's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets, but with less volatility. The valuation value of assets is the actuarial value, excluding any non-valuation reserves. The valuation value of assets is significant because SBCERA's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

This chart shows the change in the market value, actuarial value and valuation value over the past ten years.

CHART 9

Market Value, Actuarial Value and Valuation Value of Assets for Years Ended June 30, 2005 – 2014





── Market Value
✓ Actuarial Value

→ Valuation Value

C. ACTUARIAL EXPERIENCE

To calculate the required contribution, 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 measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), the contribution requirement will decrease from the previous year. On the other hand, the contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term

development and that, over the long term, experience will return to the original assumptions. For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The total gain is \$241.5 million, a \$35.1 million loss from investments, a \$227.7 million gain from lower than expected individual salary increases and a \$48.9 million gain from all other sources. A discussion of the major components of the actuarial experience is on the following pages.

This chart provides a summary of the actuarial experience during the past year.

CHART 10 Actuarial Experience for Year Ended June 30, 2014

| 1. | Net gain/(loss) from investments* | (\$35,160,000) |
|----|----------------------------------------------------------------------|----------------|
| 2. | Net gain/(loss) from lower than expected individual salary increases | 227,699,000 |
| 3. | Net gain/(loss) from other experience** | 48,914,000 |
| 4. | Net experience gain/(loss): $(1) + (2) + (3)$ | \$241,453,000 |

^{*} Details in Chart 11



^{**} See Section 3, Exhibit I. Does not include the effect of plan, assumption or method changes, if any.

Investment Rate of Return

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on the SBCERA's investment policy. For valuation purposes, the assumed rate of return on the valuation value of assets was 7.75% for the 2013/2014 plan year (based on the June 30, 2013 actuarial valuation). The actual rate of return on the valuation value of assets for the 2013/2014 plan year was 7.26%.

Since the actual return for the year was less than the assumed return, the SBCERA experienced an actuarial loss on the valuation value of assets during the year ended June 30, 2014 with regard to its investments.

This chart shows the gain/(loss) due to investment experience.

CHART 11
Investment Experience for Year Ended June 30, 2014 – Market, Actuarial and Valuation Value of Assets

| | Market Value | Actuarial Value | Valuation Value |
|-------------------------------------|----------------------|-----------------|-----------------------|
| Value of investment return | \$868,148,759 | \$524,022,197 | \$524,022,197 |
| 2. Average value of assets | 7,115,737,820 | 7,216,102,438 | 7,215,254,281 |
| 3. Rate of return: (1) ÷ (2) | 12.20% | 7.26% | 7.26% |
| 4. Assumed rate of return | 7.75% | 7.75% | 7.75% |
| 5. Expected return: (2) x (4) | \$551,469,681 | \$559,247,939 | \$559,182,207 |
| 6. Actuarial gain/(loss): (1) – (5) | <u>\$316,679,078</u> | (\$35,225,742) | <u>(\$35,160,010)</u> |



Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial, valuation, and market value basis for the last ten years.

CHART 12
Investment Return – Market Value, Actuarial Value and Valuation Value: 2005 – 2014

| | | Market Value Investment Return | | Actuarial Value Investment Return | | Valuation Value Investment Return | |
|-----------------------|-----------------|-----------------------------------|-----------------|--------------------------------------|-----------------|--------------------------------------|--|
| Year Ended June 30 | Amount | Percent | Amount | Percent | Amount | Percent | |
| 2005 | \$402,389,480 | 9.51% | \$324,332,271 | 7.33% | \$324,332,271 | 7.66% | |
| 2006 | 550,324,264 | 11.83% | 393,715,657 | 8.26% | 369,893,881 | 8.05% | |
| 2007 | 1,013,956,342 | 19.31% | 560,254,777 | 10.76% | 408,269,118 | 8.13% | |
| 2008 | (236,343,803) | -3.74% | 497,334,680 | 8.54% | 447,385,275 | 8.13% | |
| 2009 | (1,594,063,075) | -26.04% | 8,853,979 | 0.14% | 159,672,616 | 2.64% | |
| 2010 | 476,972,282 | 10.49% | (24,237,257) | -0.38% | (28,227,423) | -0.45% | |
| 2011 | 1,109,874,395 | 22.07% | 120,048,766 | 1.89% | 108,235,350 | 1.72% | |
| 2012 | 31,767,425 | 0.52% | 299,992,593 | 4.62% | 365,138,308 | 5.69% | |
| 2013 | 904,479,788 | 14.62% | 388,686,270 | 5.71% | 388,686,270 | 5.71% | |
| 2014 | 868,148,759 | 12.20% | 524,022,197 | 7.26% | 524,022,197 | 7.26% | |
| Total | \$3,527,505,857 | | \$3,093,003,933 | | \$3,067,407,863 | | |
| Five-Year Averag | ge Return | 11.70% | | 3.94% | | 4.11% | |
| Ten-Year Averag | e Return | 6.35% | | 5.17% | | 5.25% | |

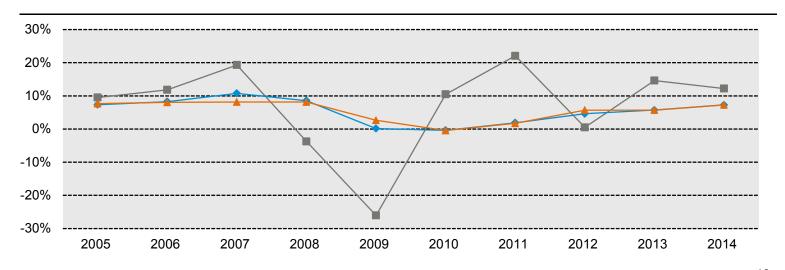
Note: Each year's yield is weighted by the average asset value in that year.



Subsection B described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs.

CHART 13

Market, Actuarial, and Valuation Rates of Return for Years Ended June 30, 2005 - 2014







Other Experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation. These include:

- > the extent of turnover among the participants,
- > retirement experience (earlier or later than expected),
- > mortality (more or fewer deaths than expected),
- > the number of disability retirements, and
- > salary increases different than assumed.

The net gain from this other experience for the year ended June 30, 2014 amounted to \$276,613,000. This gain is mainly the result of lower individual salary increases than expected. See Section 3, Exhibit I for a detailed development of the Unfunded Actuarial Accrued Liability.



D. EMPLOYER AND MEMBER CONTRIBUTIONS

Employer contributions consist of two components:

Normal Cost

The annual contribution rate that, if paid annually from a member's first year of membership through the year of retirement, would accumulate to the amount necessary to fully fund the member's retirement-related benefits. Accumulation includes annual crediting of interest at the assumed investment earning rate. The contribution rate is expressed as a level percentage of the member's compensation. Please note that the normal cost rate for County General and Superior Court members is a combined rate based on the members at both employers.

Contribution to the Unfunded Actuarial Accrued Liability (UAAL)

The annual contribution rate that, if paid annually over the UAAL amortization period, would accumulate to the amount necessary to fully fund the UAAL. Accumulation includes annual crediting of interest at the assumed investment earning rate. The contribution (or rate credit in the case of a negative unfunded actuarial accrued liability) is calculated to remain as a level percentage of future active member payroll (including payroll for new members as they enter the Association) assuming a constant number of active members. In order to remain as a level percentage of payroll, amortization payments (credits) are scheduled to increase at the combined annual inflation rate and "across the board" increases of 3.75%. The June 30, 2002 UAAL is being recognized over a 20-year declining period effective June 30, 2002. The change in unfunded liability that arises due to actuarial gains or losses or due to changes in actuarial assumptions or methods at each valuation is amortized over its own declining 20-year period. Effective with the June 30, 2012 valuation, any change in unfunded actuarial accrued liability that arises due to plan amendments is amortized over its own declining 15-year period (with the exception of retirement incentives which are amortized over its own declining period of up to 5 years). Please note that all pre-January 1, 1996 retirees and beneficiaries are included as County members only for purposes of this calculation.

The recommended employer contributions are provided on Chart 14. Chart 14a shows the employer rates in the June 30, 2014 valuation. Chart 14b shows the employer rates in the June 30, 2013 valuation. Please note that the employer rates provided in this report exclude any debt payments associated with any pension obligation bonds.



Member Contributions

Tier 1 Members

Tier 2 Members

Articles 6 and 6.8 of the 1937 Act define the methodology to be used in the calculation of member basic contribution rates for General members and Safety members, respectively. The basic contribution rate is determined so that the accumulation of a member's basic contributions made in a given year until a certain age will be sufficient to fund an annuity at that age that is equal to 1/100 of Final Average Salary. That age is 55 for General members and 50 for Safety members. It is assumed that contributions are made annually at the same rate, starting at entry age. In addition to their basic contributions, members pay one-half of the total normal cost necessary to fund their cost-of-living benefits. Accumulation includes semi-annual crediting of interest at the lesser of the assumed investment earning rate or the sixmonth T-bill rate. Any difference between the assumed investment earning rate and the actual interest crediting rate will be credited to the annuity reserve. The member contribution rates on a refundable basis are provided in Appendix A. Appendix B contains the member contribution rates on a nonrefundable basis. Please note that the member rates provided in the report are the full rate before reflecting any employer pickup.

Pursuant to Section 7522.30(a) of the Government Code, General Tier 2 and Safety Tier 2 members are required to contribute at least 50% of the Normal Cost rate. In addition, there are certain additional requirements that would have to be met such as requiring the new employees to pay the contribution rate of "similarly situated employees", if it is greater. (reference: Section 7522.30(c)). We further understand that different rules may have to be applied for collectively bargained employees, non-represented, managerial or other supervisory employees. (reference: Section 7522.30(e)). In preparing the Normal Cost rates in this report, we have assumed that exactly 50% of the Normal Cost would be paid by the new members and we have taken into account in this valuation only the requirements of Section 7522.30(c), but not the requirements of Section 7522.30(e). Also of note is that based on our discussions with SBCERA, we have reflected the discretion made recently available by Section 31620.5(a) of AB 1380 to no longer round the Tier 2 member contribution rates to the nearest one quarter of one percent as was previously required by CalPEPRA. This is consistent with established practice for the Tier 1 plans and should



allow for exactly one-half of the normal cost for the Tier 2 plans to be paid by the employees and one-half by the employers. In addition, Section 31620.5(b) of AB 1380 also confirms that the "one percent rule" under Section 7522.30(d) does not apply. This Section formerly limited the circumstances under which the Tier 2 member rate would change.

The member contribution rates on a refundable basis are provided in Appendix A. Appendix B contains the member contribution rates on a nonrefundable basis.

Administrative Expense

The Board adopted an explicit administrative expense assumption of 0.60% of payroll as of June 30, 2014. This explicit administrative expense is allocated to both the employer and member based on the components of the total average contribution rate (before expenses) for the employer and member. This results in an administrative expense load shown in the following table:

Allocation of Administrative Expense Load of 0.60% of Payroll

| Component | % of Payrol |
|---------------------------------|-------------|
| Employer Basic Normal Cost Rate | 0.17% |
| Employer Basic UAAL Rate | 0.26% |
| Member Basic Rate | 0.17% |

This allocation is based on the following total average contribution rates before including administrative expenses:

| | Total Average Rate Before | | <u>Total</u> |
|----------------|---------------------------|------------------|----------------|
| | Administrative Expense | Weighting | Loading |
| Employer Total | 26.84% | 71.1% | 0.43% |
| Member | 10.89% | <u>28.9%</u> | 0.17% |
| | | 100.0% | 0.60% |

Note that the employer Normal Cost rate has been increased by the same percent of payroll as the member rate with the remaining employer loading allocated to the employer UAAL rate. The administrative expense load has been added to the Basic rates.



CHART 14a
Recommended Employer Contribution Rates

| | | | June 30, 2014 | Actuarial Valuation | | |
|-----------------------|--------|--------------------------|---------------|--------------------------|--------|----------------------------|
| | | Basic | , | COLA | | Total |
| County General Tier 1 | Rate | Estimated Annual Amount* | Rate | Estimated Annual Amount* | Rate | Estimated Annua Amount* |
| Normal Cost | 9.82% | \$79,463 | 1.68% | \$13,594 | 11.50% | \$93,057 |
| UAAL | 6.17% | 49,927 | 4.82% | 39,003 | 10.99% | 88,930 |
| Total Contribution | 15.99% | \$129,390 | 6.50% | \$52,597 | 22.49% | \$181,987 |
| County General Tier 2 | | | | | | |
| Normal Cost | 6.90% | \$6,182 | 1.50% | \$1,344 | 8.40% | \$7,526 |
| UAAL | 6.17% | 5,528 | 4.82% | 4,319 | 10.99% | 9,847 |
| Total Contribution | 13.07% | \$11,710 | 6.32% | \$5,663 | 19.39% | \$17,373 |
| County Safety Tier 1 | | | | | | |
| Normal Cost | 18.71% | \$34,964 | 3.35% | \$6,260 | 22.06% | \$41,224 |
| UAAL | 12.71% | 23,752 | 14.32% | 26,760 | 27.03% | 50,512 |
| Total Contribution | 31.42% | \$58,716 | 17.67% | \$33,020 | 49.09% | \$91,736 |
| County Safety Tier 2 | | | | | | |
| Normal Cost | 12.15% | \$1,225 | 3.07% | \$309 | 15.22% | \$1,534 |
| UAAL | 12.71% | 1,281 | 14.32% | 1,443 | 27.03% | 2,724 |
| Total Contribution | 24.86% | \$2,506 | 17.39% | \$1,752 | 42.25% | \$4,258 |
| All County Members | | | | | | |
| Normal Cost | 11.12% | \$121,834 | 1.96% | \$21,507 | 13.08% | \$143,341 |
| UAAL | 7.35% | 80,488 | 6.52% | 71,525 | 13.87% | 152,013 |
| Total Contribution | 18.47% | \$202,322 | 8.48% | \$93,032 | 26.95% | \$295,354 |
| Superior Court Tier 1 | | | | | | |
| Normal Cost | 9.82% | \$5,695 | 1.68% | \$974 | 11.50% | \$6,669 |
| UAAL | 9.59% | 5,562 | 2.80% | 1,624 | 12.39% | 7,186 |
| Total Contribution | 19.41% | \$11,257 | 4.48% | \$2,598 | 23.89% | \$13,855 |
| Superior Court Tier 2 | | | | | | |
| Normal Cost | 6.90% | \$194 | 1.50% | \$43 | 8.40% | \$237 |
| UAAL | 9.59% | 270 | 2.80% | 78 | 12.39% | 348 |
| Total Contribution | 16.49% | \$464 | 4.30% | \$121 | 20.79% | \$585 |
| SCAQMD Tier 1 | | | | | | |
| Normal Cost | 9.95% | \$6,650 | 1.78% | \$1,189 | 11.73% | \$7,839 |
| UAAL | 13.25% | 8,856 | 5.21% | 3,483 | 18.46% | 12,339 |
| Total Contribution | 23.20% | \$15,506 | 6.99% | \$4,672 | 30.19% | \$20,178 |
| SCAQMD Tier 2 | | | | | | |
| Normal Cost | 6.53% | \$82 | 1.44% | \$18 | 7.97% | \$100 |
| UAAL | 13.25% | 166 | 5.21% | 65 | 18.46% | 231 |
| Total Contribution | 19.78% | \$248 | 6.65% | \$83 | 26.43% | \$331 |

^{*}Amounts are in thousands and are based on June 30, 2014 projected compensation (also in thousands) as shown on page 18. The Basic Normal Cost and UAAL rates shown for each cost group include an explicit administrative expense of 0.17% and 0.26% of payroll, respectively.



CHART 14a (continued)

Recommended Employer Contribution Rates

| | | | June 30, 2014 | Actuarial Valuation | | |
|------------------------|--------|--------------------------|---------------|--------------------------|--------|--------------------------|
| | I | Basic | , | COLA | | Total |
| Other General Tier 1 | Rate | Estimated Annual Amount* | Rate | Estimated Annual Amount* | Rate | Estimated Annual Amount* |
| Normal Cost | 10.95% | \$4,059 | 1.88% | \$697 | 12.83% | \$4,756 |
| UAAL | 15.60% | 5,783 | 4.88% | 1,809 | 20.48% | 7,592 |
| Total Contribution | 26.55% | \$9,842 | 6.76% | \$2,506 | 33.31% | \$12,348 |
| Other General Tier 2 | | | | | | |
| Normal Cost | 7.65% | \$210 | 1.64% | \$45 | 9.29% | \$255 |
| UAAL | 15.60% | 428 | 4.88% | 134 | 20.48% | 562 |
| Total Contribution | 23.25% | \$638 | 6.52% | \$179 | 29.77% | \$817 |
| Other Safety Tier 1 | | | | | | |
| Normal Cost | 19.73% | \$534 | 3.49% | \$94 | 23.22% | \$628 |
| UAAL | 28.40% | 769 | 17.39% | 471 | 45.79% | 1,240 |
| Total Contribution | 48.13% | \$1,303 | 20.88% | \$565 | 69.01% | \$1,868 |
| Other Safety Tier 2 | | | | | | |
| Normal Cost | 10.33% | \$52 | 2.49% | \$12 | 12.82% | \$64 |
| UAAL | 28.40% | 142 | 17.39% | 87 | 45.79% | 229 |
| Total Contribution | 38.73% | \$194 | 19.88% | \$99 | 58.61% | \$293 |
| All Employers Combined | | | | | | |
| Normal Cost | 10.99% | \$139,310 | 1.94% | \$24,579 | 12.93% | \$163,889 |
| UAAL | 8.08% | 102,464 | 6.26% | 79,276 | 14.34% | 181,740 |
| Total Contribution | 19.07% | \$241,774 | 8.20% | \$103,855 | 27.27% | \$345,629 |

^{*}Amounts are in thousands and are based on June 30, 2014 projected compensation (also in thousands) shown below. The Basic Normal Cost and UAAL rates shown for each cost groupinclude an explicit administrative expense of 0.17% and 0.26% of payroll, respectively.

| County General Tier 1 | \$809,197 |
|-----------------------|-------------|
| County General Tier 2 | 89,595 |
| County Safety Tier 1 | 186,875 |
| County Safety Tier 2 | 10,080 |
| Superior Court Tier 1 | 57,996 |
| Superior Court Tier 2 | 2,814 |
| SCAQMD Tier 1 | 66,838 |
| SCAQMD Tier 2 | 1,251 |
| Other General Tier 1 | 37,071 |
| Other General Tier 2 | 2,741 |
| Other Safety Tier 1 | 2,709 |
| Other Safety Tier 2 | 500 |
| Total | \$1,267,667 |



CHART 14b
Recommended Employer Contribution Rates

| | June 30, 2013 Actuarial Valuation | | | | | |
|-----------------------|-----------------------------------|------------------|--------|------------------|--------|-----------------|
| | | Basic | | COLA | | Total |
| | | Estimated Annual | | Estimated Annual | | Estimated Annua |
| County General Tier 1 | Rate | Amount* | Rate | Amount* | Rate | Amount* |
| Normal Cost | 8.54% | \$73,689 | 1.56% | \$13,461 | 10.10% | \$87,150 |
| UAAL | 5.72% | 49,356 | 4.42% | 38,139 | 10.14% | 87,495 |
| Total Contribution | 14.26% | \$123,045 | 5.98% | \$51,600 | 20.24% | \$174,645 |
| County General Tier 2 | | | | | | |
| Normal Cost | 6.70% | \$1,532 | 1.18% | \$270 | 7.88% | \$1,802 |
| UAAL | 5.72% | 1,308 | 4.42% | 1,011 | 10.14% | 2,319 |
| Total Contribution | 12.42% | \$2,840 | 5.60% | \$1,281 | 18.02% | \$4,121 |
| County Safety Tier 1 | | | | | | |
| Normal Cost | 16.91% | \$33,240 | 2.97% | \$5,838 | 19.88% | \$39,078 |
| UAAL | 11.13% | 21,878 | 12.14% | 23,864 | 23.27% | 45,742 |
| Total Contribution | 28.04% | \$55,118 | 15.11% | \$29,702 | 43.15% | \$84,820 |
| County Safety Tier 2 | | | | | | |
| Normal Cost | 11.21% | \$162 | 2.54% | \$36 | 13.75% | \$198 |
| UAAL | 11.13% | 160 | 12.14% | 176 | 23.27% | 336 |
| Total Contribution | 22.34% | \$322 | 14.68% | \$212 | 37.02% | \$534 |
| All County Members | | | | | | |
| Normal Cost | 10.02% | \$108,623 | 1.81% | \$19,605 | 11.83% | \$128,228 |
| UAAL | 6.71% | 72,702 | 5.83% | 63,190 | 12.54% | 135,892 |
| Total Contribution | 16.73% | \$181,325 | 7.64% | \$82,795 | 24.37% | \$264,120 |
| Superior Court Tier 1 | | | | | | |
| Normal Cost | 8.54% | \$4,954 | 1.56% | \$905 | 10.10% | \$5,859 |
| UAAL | 9.03% | 5,238 | 2.62% | 1,520 | 11.65% | 6,758 |
| Total Contribution | 17.57% | \$10,192 | 4.18% | \$2,425 | 21.75% | \$12,617 |
| Superior Court Tier 2 | | | | | | |
| Normal Cost | 6.70% | \$13 | 1.18% | \$3 | 7.88% | \$16 |
| UAAL | 9.03% | 18 | 2.62% | 5 | 11.65% | 23 |
| Total Contribution | 15.73% | \$31 | 3.80% | \$8 | 19.53% | \$39 |
| SCAQMD Tier 1 | | | | | | |
| Normal Cost | 8.61% | \$6,492 | 1.62% | \$1,221 | 10.23% | \$7,713 |
| UAAL | 12.96% | 9,771 | 4.57% | 3,446 | 17.53% | 13,217 |
| Total Contribution | 21.57% | \$16,263 | 6.19% | \$4,667 | 27.76% | \$20,930 |
| SCAOMD Tier 2 | | . , | | • , | | , |
| Normal Cost | 6.73% | \$15 | 1.10% | \$3 | 7.83% | \$18 |
| UAAL | 12.96% | 29 | 4.57% | 11 | 17.53% | 40 |
| Total Contribution | 19.69% | \$44 | 5.67% | \$14 | 25.36% | \$58 |

^{*}Amounts are in thousands and are based on June 30, 2013 projected compensation (also in thousands) as shown on page 20.



CHART 14b (continued)

Recommended Employer Contribution Rates

| | June 30, 2013 Actuarial Valuation | | | | | |
|------------------------|-----------------------------------|--------------------------|----------|--------------------------|--------|--------------------------|
| | I | Basic | <u> </u> | COLA | | Total |
| Other General Tier 1 | Rate | Estimated Annual Amount* | Rate | Estimated Annual Amount* | Rate | Estimated Annual Amount* |
| Normal Cost | 9.87% | \$4,095 | 1.80% | \$746 | 11.67% | \$4,841 |
| UAAL | 14.01% | 5,812 | 4.23% | 1,755 | 18.24% | 7,567 |
| Total Contribution | 23.88% | \$9,907 | 6.03% | \$2,501 | 29.91% | \$12,408 |
| Other General Tier 2 | | | | | | |
| Normal Cost | 6.14% | \$23 | 1.06% | \$4 | 7.20% | \$27 |
| UAAL | 14.01% | 52 | 4.23% | 15 | 18.24% | 67 |
| Total Contribution | 20.15% | \$75 | 5.29% | \$19 | 25.44% | \$94 |
| Other Safety Tier 1 | | | | | | |
| Normal Cost | 17.47% | \$559 | 3.01% | \$96 | 20.48% | \$655 |
| UAAL | 24.78% | 793 | 14.39% | 460 | 39.17% | 1,253 |
| Total Contribution | 42.25% | \$1,352 | 17.40% | \$556 | 59.65% | \$1,908 |
| Other Safety Tier 2 | | | | | | |
| Normal Cost | 9.51% | \$12 | 2.05% | \$2 | 11.56% | \$14 |
| UAAL | 24.78% | 30 | 14.39% | 17 | 39.17% | 47 |
| Total Contribution | 34.29% | \$42 | 16.44% | \$19 | 50.73% | \$61 |
| All Employers Combined | | | | | | |
| Normal Cost | 9.88% | \$124,786 | 1.79% | \$22,585 | 11.67% | \$147,371 |
| UAAL | 7.48% | 94,445 | 5.58% | 70,419 | 13.06% | 164,864 |
| Total Contribution | 17.36% | \$219,231 | 7.37% | \$93,004 | 24.73% | \$312,235 |

^{*}Amounts are in thousands and are based on June 30, 2013 projected compensation (also in thousands) shown below:

| Country Compani Tion 1 | \$962.967 |
|------------------------|-------------|
| County General Tier 1 | \$862,867 |
| County General Tier 2 | 22,870 |
| County Safety Tier 1 | 196,569 |
| County Safety Tier 2 | 1,442 |
| Superior Court Tier 1 | 58,007 |
| Superior Court Tier 2 | 198 |
| SCAQMD Tier 1 | 75,397 |
| SCAQMD Tier 2 | 226 |
| Other General Tier 1 | 41,486 |
| Other General Tier 2 | 369 |
| Other Safety Tier 1 | 3,200 |
| Other Safety Tier 2 | 121 |
| Total | \$1,262,752 |
| | |



The employer contribution rates as of June 30, 2014 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

Reconciliation of Recommended Average Employer Contribution

The chart below details the changes in the recommended average employer contribution from the prior valuation to the current year's valuation.

CHART 15

Reconciliation of Recommended Average Employer Contribution from June 30, 2013 to June 30, 2014 (Dollar Amounts in Thousands)

The chart reconciles the employer contribution from the prior valuation to the amount determined in this valuation.

| | Contribution Rate | Estimated Annual Dollar Cost ⁽¹⁾ |
|---------------------------------------------------------------------------------------------|-------------------|---------------------------------------------|
| Recommended Average Employer Contribution Rate in June 30, 2013 Valuation | 24.73% | \$312,235 |
| Effect of investment loss ⁽²⁾ | 0.20% | 2,535 |
| Effect of lower than expected individual salary increases for actives | -1.29% | -16,353 |
| Effect of amortizing prior year's UAAL over a smaller than expected projected total payroll | 0.59% | 7,479 |
| Effect of difference between actual and expected contributions | 0.18% | 2,282 |
| Effect of other experience (gains)/losses ⁽³⁾ | -0.20% | -1,336 |
| Effect of other changes in actuarial assumptions ⁽⁴⁾ | <u>3.06%</u> | <u>38,787</u> |
| Total change | <u>2.54%</u> | <u>\$33,394</u> |
| Recommended Average Employer Contribution Rate in June 30, 2014 Valuation | 27.27% | \$345,629 |
| | | |

⁽¹⁾ Based on projected compensation for each valuation date shown.



⁽²⁾ Return on the valuation value of assets of 7.26% was less than the 7.75% assumed rate of return.

⁽³⁾ Other differences in actual versus expected experience. Estimated annual dollar cost also reflects the change in projected compensation from the prior valuation.

⁽⁴⁾ Assumption changes based on June 30, 2014 Review of Economic Assumptions and Actuarial Experience Study. This includes an explicit administrative expense load of 0.43% of payroll that has been allocated to the employer contribution rate.

The member contribution rates as of June 30, 2014 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

Reconciliation of Recommended Average Member Contribution Rate

The chart below details the changes in the recommended average member contribution rate from the prior valuation to the current year's valuation.

The chart reconciles the member contribution from the prior valuation to the amount determined in this valuation.

CHART 16

Reconciliation of Recommended Average Member Contribution from June 30, 2013 to June 30, 2014 (Dollar Amounts in Thousands)

| | Contribution Rate | Estimated Annual Dollar Cost ⁽¹⁾ |
|----------------------------------------------------------------------------------------|-------------------|---------------------------------------------|
| Recommended Average Member Contribution Rate in June 30, 2013 Valuation | 10.51% | \$132,770 |
| Effect of changes in actuarial assumptions ⁽²⁾ | 0.69% | 8,745 |
| Effect of other changes including demographic profile of employee group ⁽³⁾ | <u>-0.14%</u> | <u>-1,303</u> |
| Total change | <u>0.55%</u> | <u>\$7,442</u> |
| Recommended Average Member Contribution Rate in June 30, 2014 Valuation | 11.06% | \$140,212 |

⁽¹⁾ Based on projected compensation for each valuation date shown.



⁽²⁾ Assumption changes based on June 30, 2014 Review of Economic Assumptions and Actuarial Experience Study. This includes an explicit administrative expense load of 0.17% of payroll that has been allocated to the member contribution rate.

⁽³⁾ Other differences in actual versus expected experience. Estimated annual dollar cost also reflects the change in projected compensation from the prior valuation.

E. INFORMATION REQUIRED BY GASB 27

Governmental Accounting Standards Board (GASB) reporting information provides standardized information for comparative purposes of governmental pension plans. This information allows a reader of the financial statements to compare the funding status of one governmental plan to another on relatively equal terms.

Critical information to the GASB is the historical comparison of the GASB required contribution to the actual contributions. This comparison demonstrates whether a plan is being funded within the range of GASB reporting requirements. Chart 17 below presents a graphical representation of this information for the Plan.

The other critical piece of information regarding the Plan's financial status is the funded ratio. This ratio compares the actuarial value of assets to the actuarial accrued liabilities of the plan as calculated under GASB standards. High ratios indicate a well-funded plan with assets sufficient to cover the Plan's actuarial liabilities. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other changes.

The details regarding the calculations of these values and other GASB numbers may be found in Section 4, Exhibits II, III and IV.

These graphs show key GASB factors.

CHART 17
Required Versus Actual Contributions

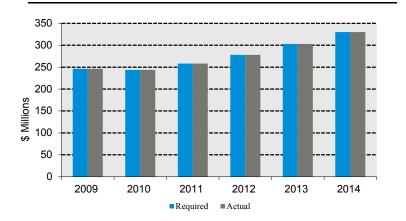
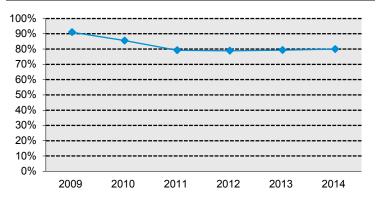


CHART 18
Funded Ratio (Actuarial Value of Assets Compared to

Actuarial Accrued Liability)





F. VOLATILITY RATIOS

Retirement plans are subject to volatility in the level of required contributions. This volatility tends to increase as retirement plans become more mature.

The Asset Volatility Ratio (AVR), which is equal to the market value of assets divided by total payroll, provides an indication of the potential contribution volatility for any given level of investment volatility. A higher AVR indicates that the plan is subject to a greater level of contribution volatility. This is a current measure since it is based on the current level of assets.

For SBCERA, the current AVR is about 6.3. This means that a 1% asset gain/(loss) (relative to the assumed investment return) translates to about 6.3% of one-year's payroll. Since SBCERA amortizes actuarial gains and losses over a period of 20 years, there would be a 0.5% of payroll decrease/(increase) in the required contribution for each 1% asset gain/(loss).

The Liability Volatility Ratio (LVR), which is equal to the Actuarial Accrued Liability divided by payroll, provides an indication of the longer-term potential for contribution volatility for any given level of investment volatility. This is because, over an extended period of time, the plan's assets should track the plan's liabilities. For example, if a plan is 50% funded on a market value basis, the liability volatility ratio would be double the asset volatility ratio and the plan sponsor should expect contribution volatility to increase over time as the plan becomes better funded.

The LVR also indicates how volatile contributions will be in response to changes in the Actuarial Accrued Liability due to actual experience or to changes in actuarial assumptions.

For SBCERA, the current LVR is about 7.6. This is about 21% higher than the AVR. Therefore, we would expect that contribution volatility will increase over the long-term.

This chart shows how the asset and liability volatility ratios have varied over time.

CHART 19
Volatility Ratios for Years Ended June 30, 2009 – 2014

| Year Ended June 30 | Asset Volatility Ratio | Liability Volatility Ratio |
|--------------------|------------------------|----------------------------|
| 2009 | 3.7 | 5.7 |
| 2010 | 4.0 | 6.0 |
| 2011 | 4.9 | 6.6 |
| 2012 | 4.9 | 6.8 |
| 2013 | 5.6 | 7.2 |
| 2014 | 6.3 | 7.6 |



EXHIBIT A Table of Plan Coverage i. County General Tier 1

| Category | Year End | _ Change From | |
|----------------------------------------|---------------|---------------|------------|
| | 2014 | 2013 | Prior Year |
| Active members in valuation: | | | |
| Number | 13,352 | 14,544 | -8.2% |
| Average age | 46.2 | 45.4 | N/A |
| Average service | 12.1 | 11.1 | N/A |
| Projected total compensation | \$809,196,993 | \$862,866,670 | -6.2% |
| Projected average compensation | \$60,605 | \$59,328 | 2.2% |
| Account balances | \$723,426,342 | \$720,151,018 | 0.5% |
| Total active vested members | 10,836 | 11,163 | -2.9% |
| Vested terminated members:(1) | 3,530 | 3,300 | 7.0% |
| Retired members: | | | |
| Number in pay status | 6,076 | 5,796 | 4.8% |
| Average age | 69.8 | 69.8 | N/A |
| Average monthly benefit | \$2,944 | \$2,873 | 2.5% |
| Disabled members: | | | |
| Number in pay status | 763 | 752 | 1.5% |
| Average age | 65.0 | 64.5 | N/A |
| Average monthly benefit ⁽²⁾ | \$2,024 | \$1,982 | 2.1% |
| Beneficiaries in pay status: | | | |
| Number in pay status | 1,079 | 1,103 | -2.2% |
| Average age | 74.0 | 73.9 | N/A |
| Average monthly benefit ⁽³⁾ | \$1,372 | \$1,354 | 1.3% |

Includes terminated members due a refund of member contributions plus accumulated interest. Excludes Supplemental Disability Benefit amounts. Excludes Survivor Benefit amounts.



EXHIBIT A Table of Plan Coverage ii. County General Tier 2

| Category | Year End | Year Ended June 30 | |
|-------------------------------------------|--------------|--------------------|----------------------------------------------|
| | 2014 | 2013 | Change From Prior Year |
| Active members in valuation: | | | |
| Number | 1,916 | 628 | 205.1% |
| Average age | 36.3 | 36.6 | N/A |
| Average service | 0.7 | 0.3 | N/A |
| Projected total compensation | \$89,594,780 | \$22,870,267 | 291.8% |
| Projected average compensation | \$46,761 | \$36,418 | 28.4% |
| Account balances | \$4,139,915 | \$457,331 | 805.2% |
| Total active vested members | 12 | 2 | 500.0% |
| Vested terminated members: ⁽¹⁾ | 170 | 17 | 900.0% |
| Retired members: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit | N/A | N/A | N/A |
| Disabled members: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit ⁽²⁾ | N/A | N/A | N/A |
| Beneficiaries in pay status: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit ⁽³⁾ | N/A | N/A | N/A |

Includes terminated members due a refund of member contributions plus accumulated interest.



Excludes Supplemental Disability Benefit amounts. Excludes Survivor Benefit amounts.

EXHIBIT A

Table of Plan Coverage
iii. County Safety Tier 1

| | Year End | Year Ended June 30 | | |
|-------------------------------------------|---------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 1,999 | 2,098 | -4.7% | |
| Average age | 41.3 | 40.7 | N/A | |
| Average service | 14.1 | 13.4 | N/A | |
| Projected total compensation | \$186,874,923 | \$196,568,566 | -4.9% | |
| Projected average compensation | \$93,484 | \$93,693 | -0.2% | |
| Account balances | \$189,825,136 | \$187,548,126 | 1.2% | |
| Total active vested members | 1,798 | 1,850 | -2.8% | |
| Vested terminated members: ⁽¹⁾ | 171 | 156 | 9.6% | |
| Retired members: | | | | |
| Number in pay status | 738 | 697 | 5.9% | |
| Average age | 63.92 | 63.8 | N/A | |
| Average monthly benefit | \$6,403 | \$6,319 | 1.3% | |
| Disabled members: | | | | |
| Number in pay status | 642 | 621 | 3.4% | |
| Average age | 61.44 | 61 | N/A | |
| Average monthly benefit | \$4,706 | \$4,521 | 4.1% | |
| Beneficiaries: | | | | |
| Number in pay status | 280 | 237 | 18.1% | |
| Average age | 66.6 | 66.2 | N/A | |
| Average monthly benefit | \$2,402 | \$2,225 | 8.0% | |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



EXHIBIT A

Table of Plan Coverage
iv. County Safety Tier 2

| | Year Ende | Year Ended June 30 | | |
|-------------------------------------------|--------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 144 | 26 | 453.8% | |
| Average age | 29.9 | 28.7 | N/A | |
| Average service | 0.9 | 0.4 | N/A | |
| Projected total compensation | \$10,079,818 | \$1,441,532 | 599.2% | |
| Projected average compensation | \$69,999 | \$55,444 | 26.3% | |
| Account balances | \$818,032 | \$47,605 | 1,618.4% | |
| Total active vested members | 0 | 0 | N/A | |
| Vested terminated members: ⁽¹⁾ | 0 | 0 | N/A | |
| Retired members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Disabled members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Beneficiaries: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



EXHIBIT A Table of Plan Coverage v. Superior Court Tier 1

| | Year End | Year Ended June 30 | | |
|-------------------------------------------|--------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change Fron Prior Year | |
| Active members in valuation: | | | | |
| Number | 825 | 889 | -7.2% | |
| Average age | 46.4 | 45.6 | N/A | |
| Average service | 13.2 | 12.3 | N/A | |
| Projected total compensation | \$57,996,350 | \$58,007,246 | 0.0% | |
| Projected average compensation | \$70,299 | \$65,250 | 7.7% | |
| Account balances | \$53,897,135 | \$53,579,834 | 0.6% | |
| Total active vested members | 727 | 751 | -3.2% | |
| Vested terminated members: ⁽¹⁾ | 143 | 132 | 8.3% | |
| Retired members: | | | | |
| Number in pay status | 201 | 177 | 13.6% | |
| Average age | 64.4 | 63.5 | N/A | |
| Average monthly benefit | \$3,763 | \$3,673 | 2.5% | |
| Disabled members: | | | | |
| Number in pay status | 20 | 20 | 0.0% | |
| Average age | 54.6 | 53.6 | N/A | |
| Average monthly benefit ⁽²⁾ | \$2,321 | \$2,284 | 1.6% | |
| Beneficiaries: | | | | |
| Number in pay status | 12 | 9 | 33.3% | |
| Average age | 59.3 | 55.6 | N/A | |
| Average monthly benefit ⁽³⁾ | \$1,467 | \$1,515 | -3.2% | |

Includes terminated members due a refund of member contributions plus accumulated interest. Excludes Supplemental Disability Benefit amounts. Excludes Survivor Benefit amounts.



EXHIBIT A Table of Plan Coverage vi. Superior Court Tier 2

| | Year Ende | _ Change From | |
|-------------------------------------------|-------------|---------------|------------|
| Category | 2014 | 2013 | Prior Year |
| Active members in valuation: | | | |
| Number | 64 | 3 | 2033.3% |
| Average age | 37.2 | 33.4 | N/A |
| Average service | 0.8 | 0.3 | N/A |
| Projected total compensation | \$2,814,001 | \$197,886 | 1322.0% |
| Projected average compensation | \$43,969 | \$65,962 | -33.3% |
| Account balances | \$179,157 | \$3,833 | 4574.1% |
| Total active vested members | 2 | 0 | N/A |
| Vested terminated members: ⁽¹⁾ | 7 | 0 | N/A |
| Retired members: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit | N/A | N/A | N/A |
| Disabled members: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit ⁽²⁾ | N/A | N/A | N/A |
| Beneficiaries: | | | |
| Number in pay status | 0 | 0 | N/A |
| Average age | N/A | N/A | N/A |
| Average monthly benefit ⁽³⁾ | N/A | N/A | N/A |

Includes terminated members due a refund of member contributions plus accumulated interest. Excludes Supplemental Disability Benefit amounts. Excludes Survivor Benefit amounts.



EXHIBIT A Table of Plan Coverage vii. SCAQMD Tier 1

| | Year End | Year Ended June 30 | | |
|-------------------------------------------|--------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 679 | 709 | -4.2% | |
| Average age | 50.7 | 50.0 | N/A | |
| Average service | 18.3 | 17.6 | N/A | |
| Projected total compensation | \$66,837,878 | \$75,397,352 | -11.4% | |
| Projected average compensation | \$98,436 | \$106,343 | -7.4% | |
| Account balances | \$47,236,100 | \$45,857,706 | 3.0% | |
| Total active vested members | 642 | 620 | 3.5% | |
| Vested terminated members: ⁽¹⁾ | 110 | 106 | 3.8% | |
| Retired members: | | | | |
| Number in pay status | 404 | 392 | 3.1% | |
| Average age | 69.2 | 68.8 | N/A | |
| Average monthly benefit | \$4,663 | \$4,469 | 4.3% | |
| Disabled members: | | | | |
| Number in pay status | 24 | 26 | -7.7% | |
| Average age | 68.2 | 68.0 | N/A | |
| Average monthly benefit ⁽²⁾ | \$3,139 | \$3,070 | 2.2% | |
| Beneficiaries: | | | | |
| Number in pay status | 71 | 66 | 7.6% | |
| Average age | 73.0 | 71.9 | N/A | |
| Average monthly benefit ⁽³⁾ | \$1,764 | \$1,700 | 3.8% | |

Includes terminated members due a refund of member contributions plus accumulated interest. Excludes Supplemental Disability Benefit amounts. Excludes Survivor Benefit amounts.



EXHIBIT A Table of Plan Coverage viii. SCAQMD Tier 2

| | Year Ende | Year Ended June 30 | | |
|-------------------------------------------|-------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 18 | 4 | 350.0% | |
| Average age | 36.4 | 36.6 | N/A | |
| Average service | 0.7 | 0.4 | N/A | |
| Projected total compensation | \$1,250,669 | \$225,839 | 453.8% | |
| Projected average compensation | \$69,482 | \$56,460 | 23.1% | |
| Account balances | \$57,492 | \$5,909 | 873.0% | |
| Total active vested members | 0 | 0 | N/A | |
| Vested terminated members: ⁽¹⁾ | | 0 | N/A | |
| Retired members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Disabled members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit ⁽²⁾ | N/A | N/A | N/A | |
| Beneficiaries: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit ⁽³⁾ | N/A | N/A | N/A | |

Includes terminated members due a refund of member contributions plus accumulated interest.



Excludes Supplemental Disability Benefit amounts.
Excludes Survivor Benefit amounts.

EXHIBIT A Table of Plan Coverage ix. Other General Tier 1

| | Year End | Year Ended June 30 | | |
|----------------------------------------|--------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 404 | 455 | -11.2% | |
| Average age | 46.9 | 46.7 | N/A | |
| Average service | 12.1 | 11.1 | N/A | |
| Projected total compensation | \$37,070,867 | \$41,485,925 | -10.6% | |
| Projected average compensation | \$91,760 | \$91,178 | 0.6% | |
| Account balances | \$25,564,798 | \$26,266,407 | -2.7% | |
| Total active vested members | 328 | 346 | -5.2% | |
| Vested terminated members:(1) | 190 | 174 | 9.2% | |
| Retired members: | | | | |
| Number in pay status | 221 | 199 | 11.1% | |
| Average age | 66.2 | 65.9 | N/A | |
| Average monthly benefit | \$3,308 | \$3,234 | 2.3% | |
| Disabled members: | | | | |
| Number in pay status | 14 | 14 | 0.0% | |
| Average age | 59.9 | 58.9 | N/A | |
| Average monthly benefit ⁽²⁾ | \$2,591 | \$2,545 | 1.8% | |
| Beneficiaries: | | | | |
| Number in pay status | 18 | 16 | 12.5% | |
| Average age | 69.3 | 69.4 | N/A | |
| Average monthly benefit ⁽³⁾ | \$1,286 | \$1,272 | 1.1% | |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.
(2) Excludes Supplemental Disability Benefit amounts.
(3) Excludes Survivor Benefit amounts.



EXHIBIT A Table of Plan Coverage x. Other General Tier 2

| | Year Ende | Year Ended June 30 | | |
|-------------------------------------------|-------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 56 | 9 | 522.2% | |
| Average age | 41.6 | 38.7 | N/A | |
| Average service | 0.6 | 0.3 | N/A | |
| Projected total compensation | \$2,741,134 | \$368,778 | 643.3% | |
| Projected average compensation | \$48,949 | \$40,975 | 19.5% | |
| Account balances | \$124,212 | \$10,026 | 1138.9% | |
| Total active vested members | 0 | 0 | N/A | |
| Vested terminated members: ⁽¹⁾ | 0 | 0 | N/A | |
| Retired members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Disabled members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit ⁽²⁾ | N/A | N/A | N/A | |
| Beneficiaries: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit ⁽³⁾ | N/A | N/A | N/A | |

Includes terminated members due a refund of member contributions plus accumulated interest.

Excludes Supplemental Disability Benefit amounts.



Excludes Survivor Benefit amounts.

EXHIBIT A

Table of Plan Coverage
xi. Other Safety Tier 1

| | Year Ende | Year Ended June 30 | | |
|--------------------------------|---------------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 33 | 34 | -2.9% | |
| Average age | 42.1 | 42.0 | N/A | |
| Average service | 11.2 | 11.2 | N/A | |
| Projected total compensation | \$2,709,122 | \$3,200,472 | -15.4% | |
| Projected average compensation | \$82,095 | \$94,132 | -12.8% | |
| Account balances | \$3,628,422 | \$3,837,067 | -5.4% | |
| Total active vested members | 28 18 | 30 | -6.7% | |
| Vested terminated members:(1) | | 17 | 5.9% | |
| Retired members: | | | | |
| Number in pay status | 19 | 14 | 35.7% | |
| Average age | 60.3 | 61.1 | N/A | |
| Average monthly benefit | \$5,498 \$6,3 | | -13.4% | |
| Disabled members: | | | | |
| Number in pay status | 11 | 11 | 0.0% | |
| Average age | 59.8 | 58.8 | N/A | |
| Average monthly benefit | \$4,099 | \$4,024 | 1.9% | |
| Beneficiaries: | | | | |
| Number in pay status | 2 | 1 | 100.0% | |
| Average age | 62.2 | 70.9 | N/A | |
| Average monthly benefit | \$1,592 | \$88 | 1709.1% | |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



EXHIBIT A

Table of Plan Coverage
xii. Other Safety Tier 2

| | Year Ende | Year Ended June 30 | | |
|-------------------------------------------|-----------|--------------------|---------------------------|--|
| Category | 2014 | 2013 | Change From Prior Year | |
| Active members in valuation: | | | | |
| Number | 7 | 2 | 250.0% | |
| Average age | 27.2 | 24.8 | N/A | |
| Average service | 0.3 | 0.1 | N/A | |
| Projected total compensation | \$500,276 | \$121,431 | 312.0% | |
| Projected average compensation | \$71,468 | \$60,715 | 17.7% | |
| Account balances | \$16,902 | \$2,120 | 697.3% | |
| Total active vested members | 0 | 0 | N/A | |
| Vested terminated members: ⁽¹⁾ | 0 | 0 | N/A | |
| Retired members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Disabled members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |
| Beneficiaries: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit | N/A | N/A | N/A | |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



EXHIBIT A

Table of Plan Coverage
xiii. Withdrawn Other General Employers⁽¹⁾

| | Year Ende | _ Change From | | |
|-------------------------------------------|-----------|---------------|------------|--|
| Category | 2014 | 2013 | Prior Year | |
| Active members in valuation: | | | | |
| Number | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average service | N/A | N/A | N/A | |
| Projected total compensation | N/A | N/A | N/A | |
| Projected average compensation | N/A | N/A | N/A | |
| Account balances | N/A | N/A | N/A | |
| Total active vested members | 0 | 0 | N/A | |
| Vested terminated members: ⁽²⁾ | 17 | 19 | -10.5% | |
| Retired members: | | | | |
| Number in pay status | 22 | 21 | 4.8% | |
| Average age | 64.4 | 63.6 | N/A | |
| Average monthly benefit | \$1,721 | \$1,747 | -1.5% | |
| Disabled members: | | | | |
| Number in pay status | 0 | 0 | N/A | |
| Average age | N/A | N/A | N/A | |
| Average monthly benefit ⁽³⁾ | N/A | N/A | N/A | |
| Beneficiaries: | | | | |
| Number in pay status | 1 | 1 | 0.0% | |
| Average age | 58.6 | 57.6 | N/A | |
| Average monthly benefit ⁽⁴⁾ | \$1,658 | \$1,642 | 1.0% | |

⁽¹⁾ Includes San Bernardino International Airport Authority, Inland Valley Development Agency and Rim of the World Recreation & Park District.

⁽⁴⁾ Excludes Survivor Benefit amounts.



⁽²⁾ Includes terminated members due a refund of member contributions plus accumulated interest.

⁽³⁾ Excludes Supplemental Disability Benefit amounts.

EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service
i. County General Tier 1

| | Years of Service | | | | | | | | | |
|-----------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over |
| Under 25 | 63 | 61 | 2 | | | | | | | |
| | \$37,299 | \$37,343 | \$35,936 | | | | | | | |
| 25 - 29 | 731 | 516 | 211 | 4 | | | | | | |
| | 48,453 | 48,256 | 48,743 | \$58,616 | | | | | | |
| 30 - 34 | 1,543 | 570 | 819 | 152 | 2 | | | | | |
| | 53,762 | 48,979 | 56,920 | 54,802 | \$44,500 | | | | | |
| 35 - 39 | 1,898 | 432 | 800 | 529 | 135 | 2 | | | | |
| | 58,356 | 50,383 | 60,898 | 60,130 | 61,533 | \$79,692 | | | | |
| 40 - 44 | 2,044 | 361 | 622 | 545 | 401 | 110 | 5 | | | |
| | 61,015 | 47,676 | 61,577 | 64,407 | 65,384 | 68,637 | \$66,540 | | | |
| 45 - 49 | 1,912 | 248 | 468 | 473 | 378 | 269 | 72 | 3 | 1 | |
| | 62,325 | 50,180 | 59,890 | 64,345 | 68,613 | 64,993 | 63,188 | \$81,630 | \$44,791 | |
| 50 - 54 | 1,979 | 193 | 412 | 451 | 321 | 312 | 216 | 69 | 4 | 1 |
| | 64,064 | 52,750 | 60,087 | 62,276 | 64,958 | 69,116 | 75,373 | 69,116 | 58,956 | \$58,833 |
| 55 - 59 | 1,810 | 135 | 332 | 401 | 308 | 266 | 171 | 140 | 55 | 2 |
| | 65,837 | 58,856 | 63,943 | 61,780 | 64,363 | 66,748 | 72,455 | 80,177 | 71,290 | 51,419 |
| 60 - 64 | 1,040 | 76 | 212 | 230 | 159 | 163 | 125 | 52 | 21 | 2 |
| | 64,554 | 52,540 | 60,667 | 62,669 | 64,696 | 65,601 | 65,650 | 91,983 | 84,358 | 63,427 |
| 65 - 69 | 267 | 15 | 74 | 66 | 54 | 30 | 21 | 6 | 1 | |
| | 63,123 | 76,492 | 61,318 | 58,887 | 61,247 | 74,532 | 60,493 | 59,239 | 113,291 | |
| 70 & over | 65 | 2 | 15 | 18 | 16 | 10 | 3 | 1 | | |
| | 59,914 | 40,457 | 53,319 | 63,476 | 60,739 | 64,466 | 69,252 | 46,913 | | |
| Total | 13,352 | 2,609 | 3,967 | 2,869 | 1,774 | 1,162 | 613 | 271 | 82 | 5 |
| | \$60,605 | \$49,776 | \$59,543 | \$62,117 | \$65,272 | \$67,199 | \$70,534 | \$79,056 | \$74,224 | \$57,705 |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

ii. County General Tier 2

| | Years of Service | | | | | | | | | | | | |
|-----------|------------------|----------|----------|----------|-------|-------|-------|-------|-------|-----------|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | |
| Under 25 | 179 | 179 | | | | | | | | | | | |
| | \$44,190 | \$44,190 | | | | | | | | | | | |
| 25 - 29 | 481 | 481 | | | | | | | | | | | |
| | 46,230 | 46,230 | | | | | | | | | | | |
| 30 - 34 | 382 | 380 | 2 | | | | | | | | | | |
| | 45,604 | 45,531 | \$59,583 | | | | | | | | | | |
| 35 - 39 | 260 | 259 | | 1 | | | | | | | | | |
| | 47,321 | 47,376 | | \$33,094 | | | | | | | | | |
| 40 - 44 | 212 | 209 | 3 | | | | | | | | | | |
| | 46,934 | 46,559 | 73,098 | | | | | | | | | | |
| 45 - 49 | 157 | 156 | 1 | | | | | | | | | | |
| | 46,692 | 46,617 | 58,452 | | | | | | | | | | |
| 50 - 54 | 121 | 121 | | | | | | | | | | | |
| | 47,461 | 47,461 | | | | | | | | | | | |
| 55 - 59 | 82 | 82 | | | | | | | | | | | |
| | 49,466 | 49,466 | | | | | | | | | | | |
| 60 - 64 | 38 | 38 | | | | | | | | | | | |
| | 61,480 | 61,480 | | | | | | | | | | | |
| 65 - 69 | 4 | 4 | | | | | | | | | | | |
| | 76,995 | 76,995 | | | | | | | | | | | |
| 70 & over | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Total | 1,916 | 1,909 | 6 | 1 | | | | | | | | | |
| | \$46,761 | \$46,708 | \$66,152 | \$33,094 | | | | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

iii. County Safety Tier 1

| | Years of Service | | | | | | | | | | | | |
|----------|------------------|----------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | |
| Under 25 | 37 | 37 | | | | | | | | | | | |
| | \$68,094 | \$68,094 | | | | | | | | | | | |
| 25 - 29 | 181 | 90 | 91 | | | | | | | | | | |
| | 75,771 | 69,660 | \$81,815 | | | | | | | | | | |
| 30 - 34 | 332 | 52 | 234 | 46 | | | | | | | | | |
| | 84,566 | 71,818 | 86,304 | \$90,136 | | | | | | | | | |
| 35 - 39 | 361 | 16 | 158 | 137 | 49 | 1 | | | | | | | |
| | 90,241 | 74,266 | 87,122 | 92,595 | \$99,082 | \$82,841 | | | | | | | |
| 40 - 44 | 374 | 4 | 98 | 97 | 141 | 33 | 1 | | | | | | |
| | 96,381 | 83,543 | 90,580 | 94,284 | 100,251 | 104,640 | \$101,558 | | | | | | |
| 45 - 49 | 343 | 2 | 41 | 58 | 78 | 101 | 60 | 3 | | | | | |
| | 102,068 | 65,258 | 89,261 | 93,250 | 98,966 | 106,180 | 116,509 | \$125,564 | | | | | |
| 50 - 54 | 252 | 6 | 24 | 28 | 36 | 58 | 85 | 14 | 1 | | | | |
| | 106,031 | 80,340 | 101,115 | 98,314 | 99,834 | 102,228 | 115,257 | 117,765 | \$89,508 | | | | |
| 55 - 59 | 89 | | 12 | 9 | 10 | 26 | 25 | 7 | | | | | |
| | 102,113 | | 106,503 | 95,177 | 101,785 | 97,187 | 106,106 | 108,008 | | | | | |
| 60 - 64 | 24 | | 3 | 2 | 7 | 5 | 6 | 1 | | | | | |
| | 103,865 | | 106,343 | 116,599 | 100,509 | 99,780 | 108,810 | 85,202 | | | | | |
| 65 - 69 | 6 | 1 | | 2 | 1 | | | 2 | | | | | |
| | 105,222 | 60,000 | | 136,407 | 129,174 | | | 84,673 | | | | | |
| Total | 1,999 | 208 | 661 | 379 | 322 | 224 | 177 | 27 | 1 | | | | |
| | \$93,484 | \$70,762 | \$87,694 | \$93,671 | \$99,858 | \$103,639 | \$114,093 | \$112,445 | \$89,508 | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service
iv. County Safety Tier 2

| | | Years of Service | | | | | | | | | | | | |
|----------|----------|------------------|-----|-------|-------|-------|-------|-------|-------|-----------|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | | |
| Under 25 | 47 | 47 | | | | | | | | | | | | |
| | \$66,481 | \$66,481 | | | | | | | | | | | | |
| 25 - 29 | 49 | 49 | | | | | | | | | | | | |
| | 67,262 | 67,262 | | | | | | | | | | | | |
| 30 - 34 | 24 | 24 | | | | | | | | | | | | |
| | 69,353 | 69,353 | | | | | | | | | | | | |
| 35 - 39 | 8 | 8 | | | | | | | | | | | | |
| | 74,073 | 74,073 | | | | | | | | | | | | |
| 40 - 44 | 4 | 4 | | | | | | | | | | | | |
| | 69,344 | 69,344 | | | | | | | | | | | | |
| 45 - 49 | 2 | 2 | | | | | | | | | | | | |
| | 74,950 | 74,950 | | | | | | | | | | | | |
| 50 - 54 | 6 | 6 | | | | | | | | | | | | |
| | 97,307 | 97,307 | | | | | | | | | | | | |
| 55 - 59 | 3 | 3 | | | | | | | | | | | | |
| | 95,316 | 95,316 | | | | | | | | | | | | |
| 60 - 64 | 1 | 1 | | | | | | | | | | | | |
| | 105,274 | 105,274 | | | | | | | | | | | | |
| 65 - 69 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Total | 144 | 144 | | | | | | | | | | | | |
| | \$69,999 | \$69,999 | | | | | | | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

v. Superior Court Tier 1

| | | Years of Service | | | | | | | | | | | | |
|-----------|----------|------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | | |
| Under 25 | 1 | 1 | | | | | | | | | | | | |
| | \$45,916 | \$45,916 | | | | | | | | | | | | |
| 25 - 29 | 43 | 19 | 24 | | | | | | | | | | | |
| | 51,212 | 47,917 | \$53,821 | | | | | | | | | | | |
| 30 - 34 | 94 | 17 | 62 | 15 | | | | | | | | | | |
| | 56,185 | 55,018 | 56,279 | \$57,120 | | | | | | | | | | |
| 35 - 39 | 115 | 28 | 43 | 35 | 9 | | | | | | | | | |
| | 62,938 | 62,613 | 61,465 | 63,413 | \$69,132 | | | | | | | | | |
| 40 - 44 | 118 | 10 | 50 | 35 | 15 | 5 | 3 | | | | | | | |
| | 70,829 | 76,315 | 74,566 | 66,514 | 68,675 | \$65,006 | \$61,077 | | | | | | | |
| 45 - 49 | 133 | 13 | 42 | 29 | 22 | 14 | 12 | 1 | | | | | | |
| | 71,348 | 72,365 | 72,375 | 72,846 | 73,531 | 63,635 | 65,252 | \$104,627 | | | | | | |
| 50 - 54 | 134 | 8 | 30 | 28 | 18 | 25 | 19 | 5 | 1 | | | | | |
| | 73,072 | 106,587 | 63,419 | 79,431 | 72,826 | 65,307 | 73,863 | 69,547 | \$117,677 | | | | | |
| 55 - 59 | 111 | 2 | 19 | 21 | 15 | 18 | 14 | 17 | 5 | | | | | |
| | 84,210 | 89,185 | 73,672 | 89,035 | 94,966 | 70,152 | 94,339 | 90,173 | 71,700 | | | | | |
| 60 - 64 | 61 | 6 | 12 | 5 | 15 | 6 | 11 | 6 | | | | | | |
| | 83,253 | 58,852 | 80,470 | 109,095 | 86,989 | 69,232 | 73,702 | 113,874 | | | | | | |
| 65 - 69 | 11 | | 5 | 2 | 3 | 1 | | | | | | | | |
| | 75,039 | | 73,013 | 73,079 | 86,902 | 53,505 | | | | | | | | |
| 70 & over | 4 | | 2 | 1 | 1 | | | | | | | | | |
| | 84,806 | | 71,499 | 49,364 | 146,864 | | | | | | | | | |
| Total | 825 | 104 | 289 | 171 | 98 | 69 | 59 | 29 | 6 | | | | | |
| | \$70,299 | \$64,739 | \$65,633 | \$72,232 | \$78,753 | \$66,380 | \$76,290 | \$92,019 | \$79,363 | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service
vi. Superior Court Tier 2

| | Years of Service | | | | | | | | | | | | |
|-----------|------------------|----------|-----|----------|-------|-------|-------|-------|-------|-----------|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | |
| Under 25 | 5 | 5 | | | | | | | | | | | |
| | \$38,504 | \$38,504 | | | | | | | | | | | |
| 25 - 29 | 14 | 14 | | | | | | | | | | | |
| | 35,054 | 35,054 | | | | | | | | | | | |
| 30 - 34 | 14 | 14 | | | | | | | | | | | |
| | 51,647 | 51,647 | | | | | | | | | | | |
| 35 - 39 | 5 | 5 | | | | | | | | | | | |
| | 42,520 | 42,520 | | | | | | | | | | | |
| 40 - 44 | 11 | 11 | | | | | | | | | | | |
| | 34,065 | 34,065 | | | | | | | | | | | |
| 45 - 49 | 7 | 7 | | | | | | | | | | | |
| | 49,062 | 49,062 | | | | | | | | | | | |
| 50 - 54 | 4 | 3 | | 1 | | | | | | | | | |
| | 54,806 | 57,315 | | \$47,279 | | | | | | | | | |
| 55 - 59 | 2 | 2 | | | | | | | | | | | |
| | 63,302 | 63,302 | | | | | | | | | | | |
| 60 - 64 | 2 | 2 | | | | | | | | | | | |
| | 65,546 | 65,546 | | | | | | | | | | | |
| 65 - 69 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 70 & over | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Total | 64 | 63 | | 1 | | | | | | | | | |
| | \$43,969 | \$43,916 | | \$47,279 | | | | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

vii. SCAQMD Tier 1

| | | Years of Service | | | | | | | | | | | | |
|-----------|----------|------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & over | | | | |
| Under 25 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 25 - 29 | 17 | 10 | 7 | | | | | | | | | | | |
| | \$77,813 | \$78,183 | \$77,283 | | | | | | | | | | | |
| 30 - 34 | 50 | 8 | 40 | 2 | | | | | | | | | | |
| | 88,598 | 99,369 | 86,435 | \$88,780 | | | | | | | | | | |
| 35 - 39 | 68 | 9 | 40 | 15 | 4 | | | | | | | | | |
| | 92,836 | 105,952 | 83,590 | 100,854 | \$125,714 | | | | | | | | | |
| 40 - 44 | 55 | 6 | 24 | 16 | 7 | 2 | | | | | | | | |
| | 94,553 | 80,537 | 100,987 | 91,816 | 97,808 | \$69,905 | | | | | | | | |
| 45 - 49 | 79 | 3 | 19 | 19 | 9 | 13 | 16 | | | | | | | |
| | 95,692 | 100,245 | 87,732 | 92,186 | 105,430 | 101,613 | \$98,167 | | | | | | | |
| 50 - 54 | 132 | 2 | 11 | 17 | 6 | 24 | 58 | 14 | | | | | | |
| | 100,790 | 56,535 | 91,143 | 91,836 | 103,151 | 102,659 | 104,072 | \$107,755 | | | | | | |
| 55 - 59 | 158 | 4 | 16 | 11 | 7 | 31 | 52 | 29 | 7 | 1 | | | | |
| | 107,123 | 83,232 | 91,961 | 109,441 | 92,490 | 108,078 | 108,237 | 116,566 | \$103,692 | \$184,874 | | | | |
| 60 - 64 | 92 | | 8 | 5 | 2 | 11 | 43 | 22 | 1 | | | | | |
| | 102,206 | | 75,819 | 75,605 | 94,380 | 111,974 | 103,244 | 111,731 | 100,357 | | | | | |
| 65 - 69 | 21 | 1 | 3 | 5 | 1 | 7 | 4 | | | | | | | |
| | 88,091 | 103,865 | 54,568 | 103,699 | 74,408 | 85,740 | 97,317 | | | | | | | |
| 70 & over | 7 | 1 | 1 | 1 | | 2 | 1 | 1 | | | | | | |
| | 75,642 | 65,082 | 99,053 | 110,219 | | 69,152 | 55,346 | 61,492 | | | | | | |
| Total | 679 | 44 | 169 | 91 | 36 | 90 | 174 | 66 | 8 | 1 | | | | |
| | \$98,436 | \$89,301 | \$87,431 | \$95,415 | \$101,830 | \$102,725 | \$104,134 | \$112,251 | \$103,275 | \$184,874 | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

viii. SCAQMD Tier 2

| | Years of Service | | | | | | | | | | | | |
|-----------|------------------|----------|-----|-------|-------|-------|-------|-------|-------|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | | | | |
| Under 25 | 1 | 1 | | | | | | | | | | | |
| | \$39,028 | \$39,028 | | | | | | | | | | | |
| 25 - 29 | 2 | 2 | | | | | | | | | | | |
| | 63,505 | 63,505 | | | | | | | | | | | |
| 30 - 34 | 8 | 8 | | | | | | | | | | | |
| | 67,716 | 67,716 | | | | | | | | | | | |
| 35 - 39 | 3 | 3 | | | | | | | | | | | |
| | 71,241 | 71,241 | | | | | | | | | | | |
| 40 - 44 | 1 | 1 | | | | | | | | | | | |
| | 138,077 | 138,077 | | | | | | | | | | | |
| 45 - 49 | 1 | 1 | | | | | | | | | | | |
| | 66,992 | 66,992 | | | | | | | | | | | |
| 50 - 54 | 1 | 1 | | | | | | | | | | | |
| | 68,011 | 68,011 | | | | | | | | | | | |
| 55 - 59 | 1 | 1 | | | | | | | | | | | |
| | 56,101 | 56,101 | | | | | | | | | | | |
| 60 - 64 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 65 - 69 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 70 & over | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Total | 18 | 18 | | | | | | | | | | | |
| | \$69,482 | \$69,482 | | | | | | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service
ix. Other General Tier 1

| | | | | Years of Se | rvice | | | |
|----------|----------|----------|----------|-------------|----------|-----------|----------|----------|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 |
| Under 25 | | | | | | | | |
| | | | | | | | | |
| 25 - 29 | 25 | 18 | 7 | | | | | |
| | \$64,009 | \$62,090 | \$68,944 | | | | | |
| 30 - 34 | 42 | 15 | 26 | 1 | | | | |
| | 80,005 | 79,846 | 80,036 | \$81,577 | | | | |
| 35 - 39 | 48 | 14 | 23 | 9 | 2 | | | |
| | 85,499 | 87,397 | 76,996 | 106,699 | \$74,586 | | | |
| 40 - 44 | 64 | 15 | 28 | 16 | 3 | 2 | | |
| | 89,325 | 78,246 | 86,270 | 108,212 | 89,271 | \$64,174 | | |
| 45 - 49 | 47 | 9 | 16 | 10 | 4 | 8 | | |
| | 105,368 | 133,403 | 98,480 | 78,880 | 89,763 | 128,516 | | |
| 50 - 54 | 72 | 10 | 17 | 18 | 7 | 11 | 6 | 3 |
| | 91,434 | 91,984 | 85,224 | 101,421 | 78,055 | 91,144 | \$91,475 | \$97,068 |
| 55 - 59 | 62 | 5 | 13 | 7 | 15 | 12 | 8 | 2 |
| | 103,545 | 143,475 | 85,512 | 101,614 | 105,427 | 99,081 | 114,884 | 95,010 |
| 60 - 64 | 36 | 5 | 12 | 6 | 3 | 3 | 6 | 1 |
| | 100,784 | 119,503 | 115,807 | 92,919 | 83,660 | 134,041 | 56,033 | 94,207 |
| 65 - 69 | 8 | 1 | 4 | 2 | | | | 1 |
| | 88,267 | 27,203 | 71,269 | 163,894 | | | | 66,073 |
| Total | 404 | 92 | 146 | 69 | 34 | 36 | 20 | 7 |
| | \$91,760 | \$88,860 | \$86,034 | \$101,221 | \$92,788 | \$104,171 | \$90,206 | \$91,643 |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

x. Other General Tier 2

| | | | | Years of Se | rvice | | | |
|----------|----------|----------|-----|-------------|-------|-------|-------|-------|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 |
| Under 25 | 4 | 4 | | | | | | |
| | \$39,288 | \$39,288 | | | | | | |
| 25 - 29 | 4 | 4 | | | | | | |
| | 46,419 | 46,419 | | | | | | |
| 30 - 34 | 8 | 8 | | | | | | |
| | 46,975 | 46,975 | | | | | | |
| 35 - 39 | 15 | 15 | | | | | | |
| | 44,200 | 44,200 | | | | | | |
| 40 - 44 | 3 | 3 | | | | | | |
| | 34,238 | 34,238 | | | | | | |
| 45 - 49 | 8 | 8 | | | | | | |
| | 84,869 | 84,869 | | | | | | |
| 50 - 54 | 6 | 6 | | | | | | |
| | 55,042 | 55,042 | | | | | | |
| 55 - 59 | 7 | 7 | | | | | | |
| | 30,321 | 30,321 | | | | | | |
| 60 - 64 | 1 | 1 | | | | | | |
| | 35,339 | 35,339 | | | | | | |
| 65 - 69 | | | | | | | | |
| | | | | | | | | |
| Total | 56 | 56 | | | | | | |
| | \$48,949 | \$48,949 | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

xi. Other Safety Tier 1

| | | Years of Service | | | | | | | | | | | |
|----------|----------|------------------|----------|-----------|-----------|----------|-----------|--|--|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | | | | | | |
| Under 25 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 25 - 29 | 3 | 2 | 1 | | | | | | | | | | |
| | \$75,313 | \$73,388 | \$79,165 | | | | | | | | | | |
| 30 - 34 | 5 | 1 | 4 | | | | | | | | | | |
| | 61,765 | 71,045 | 59,445 | | | | | | | | | | |
| 35 - 39 | 5 | | 5 | | | | | | | | | | |
| | 64,139 | | 64,139 | | | | | | | | | | |
| 40 - 44 | 7 | | 2 | 3 | | 2 | | | | | | | |
| | 100,270 | | 111,716 | \$105,750 | | \$80,603 | | | | | | | |
| 45 - 49 | 5 | | 1 | | | 3 | 1 | | | | | | |
| | 99,741 | | 79,767 | | | 81,725 | \$173,762 | | | | | | |
| 50 - 54 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| | 86,520 | 60,000 | 53,716 | 82,098 | \$125,627 | 107,274 | 90,404 | | | | | | |
| 55 - 59 | 2 | 1 | | | 1 | | | | | | | | |
| | 66,975 | 60,000 | | | 73,949 | | | | | | | | |
| 60 - 64 | | | | | · | | | | | | | | |
| | | | | | | | | | | | | | |
| 65 - 69 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Total | 33 | 5 | 14 | 4 | 2 | 6 | 2 | | | | | | |
| | \$82,095 | \$67,564 | \$71,040 | \$99,837 | \$99,788 | \$85,609 | \$132,083 | | | | | | |



EXHIBIT B

Members in Active Service and Projected Average Compensation as of June 30, 2014

By Age and Years of Service

xii. Other Safety Tier 2

| | Years of Service | | | | | | | | | | | |
|----------|------------------|----------|-----|-------|-------|-------|-------|--|--|--|--|--|
| Age | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | | | | | |
| Under 25 | 3 | 3 | | | | | | | | | | |
| | \$68,963 | \$68,963 | | | | | | | | | | |
| 25 - 29 | 2 | 2 | | | | | | | | | | |
| | 75,973 | 75,973 | | | | | | | | | | |
| 30 - 34 | 2 | 2 | | | | | | | | | | |
| | 70,720 | 70,720 | | | | | | | | | | |
| 35 - 39 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 40 - 44 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 45 - 49 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 50 - 54 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 55 - 59 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 60 - 64 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 65 - 69 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total | 7 | 7 | | | | | | | | | | |
| | \$71,468 | \$71,468 | | | | | | | | | | |



EXHIBIT C
Reconciliation of Member Data – June 30, 2013 to June 30, 2014

| | Active Members | Vested Terminated Members ⁽¹⁾ | Pensioners | Disableds ⁽²⁾ | Beneficiaries | Total |
|----------------------------------|-------------------|------------------------------------------------|------------|--------------------------|---------------|--------|
| Number as of June 30, 2013 | 19,401 | 3,921 | 7,296 | 1,444 | 1,433 | 33,495 |
| New members | 1,644 | 117 | 0 | 0 | 114 | 1,875 |
| Terminations | -647 | 647 | 0 | 0 | 0 | 0 |
| Contribution refunds | -397 | -155 | 0 | 0 | 0 | -552 |
| Retirements | -502 | -108 | 610 | 0 | 0 | 0 |
| New disabilities | -29 | -2 | -32 | 63 | 0 | 0 |
| Return to work | 57 | -54 | -3 | 0 | 0 | 0 |
| Died with or without beneficiary | -30 | -10 | -191 | -33 | -84 | -348 |
| Data adjustments | 0 | 0 | 1 | 0 | 0 | 1 |
| Number as of June 30, 2014 | 19,497 | 4,356 | 7,681 | 1,474 | 1,463 | 34,471 |

⁽¹⁾ Includes terminated members due a refund of member contributions plus accumulated interest.



⁽²⁾ As of June 30, 2014 includes 350 members receiving an ordinary disability and 1,124 members receiving a duty disability.

EXHIBIT D
Summary Statement of Income and Expenses on Actuarial Value of Assets

| | Year Ended J | Year Ended June 30, 2014 | | une 30, 2013 |
|-----------------------------------------|---------------|--------------------------|---------------------|----------------|
| Contribution income: | | | | |
| Employer contributions | \$330,330,400 | | \$303,080,499 | |
| Employee contributions | 89,860,998 | | 91,055,576 | |
| Total contribution income | | \$420,191,398 | | \$394,136,075 |
| Investment income: | | | | |
| Interest, dividends and other income | \$38,768,675 | | \$29,930,407 | |
| Adjustment toward market value(1) | 618,690,308 | | 466,691,338 | |
| Less investment and administrative fees | -133,436,786 | | <u>-108,115,475</u> | |
| Net investment income | | \$524,022,197 | | \$388,506,270 |
| Total income available for benefits | | \$944,213,595 | | \$782,642,345 |
| Less benefit payments | | -\$397,823,478 | | -\$367,396,205 |
| Change in reserve for future benefits | | \$546,390,117 | | \$415,246,140 |

⁽¹⁾ Equals the "non-cash" earnings on investments implicitly included in the Actuarial Value of Assets.



EXHIBIT E
Summary Statement of Net Assets ("Fiduciary Net Position")

| | Year Ended . | June 30, 2014 | Year Ended June 30, 2013 | | |
|--------------------------------------------|------------------|------------------------|--------------------------|-----------------|--|
| Cash equivalents | | \$888,333,709 | | \$1,004,327,339 | |
| Accounts receivable: | | | | | |
| Securities sold | \$82,317,554 | | \$163,495,492 | | |
| Accrued interest and dividends | 2,835,859 | | 1,582,390 | | |
| Employee and employer contributions | 30,434,692 | | 16,631,798 | | |
| Other | <u>2,933,471</u> | | 3,439,566 | | |
| Total accounts receivable | | \$118,521,576 | | \$185,149,246 | |
| Investments: | | | | | |
| Equities | \$794,722,945 | | \$647,297,944 | | |
| Fixed income | 923,469,579 | | 565,350,000 | | |
| Real estate | 535,447,303 | | 531,433,993 | | |
| Other | 4,944,390,645 | | 4,470,870,921 | | |
| Investments received on securities lending | 45,784,364 | | 98,196,222 | | |
| Total investments at market value | | \$7,243,814,836 | | \$6,313,149,080 | |
| Total assets | | \$8,250,670,121 | | \$7,502,625,665 | |
| Liabilities: | | | | | |
| Securities lending | -\$46,040,396 | | -\$98,688,732 | | |
| Payable for securities purchased | -132,793,676 | | -121,524,062 | | |
| Securities options payable | -21,193,805 | | -122,888,782 | | |
| Mortgage notes payable | -45,501,693 | | -45,802,138 | | |
| Accrued expenses | -10,070,012 | | <u>-9,168,091</u> | | |
| Total liabilities | | -\$255,599,582 | | -\$398,071,805 | |
| Net assets at market value | | <u>\$7,995,070,539</u> | | \$7,104,553,860 | |
| Net assets at actuarial value | | \$7,751,308,595 | | \$7,204,918,478 | |
| Net assets at valuation value (1) | | \$7,756,386,089 | | \$7,209,814,454 | |

⁽¹⁾ Includes \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.



EXHIBIT F
Development of the Fund Through June 30, 2014

| Year Ended June 30 | Employer Contributions | Employee Contributions | Other Contributions | Net Investment Return ⁽¹⁾ | Benefit Payments | Actuarial Value of Assets at End of Year |
|-----------------------|---------------------------|---------------------------|------------------------|--------------------------------------------|---------------------|---------------------------------------------------|
| 2005 | \$161,906,350 | \$31,806,101 | \$0 | \$324,332,271 | -\$185,967,691 | \$4,750,229,011 |
| 2006 | 197,342,596 | 38,367,614 | 0 | 393,715,657 | -203,887,582 | 5,175,767,296 |
| 2007 | 229,856,532 | 47,004,698 | 10,000,000 | 560,254,777 | -225,483,274 | 5,797,400,029 |
| 2008 | 241,721,392 | 49,480,584 | 0 | 497,334,680 | -244,405,820 | 6,341,530,865 |
| 2009 | 246,232,150 | 49,550,489 | 0 | 8,853,979 | -262,779,370 | 6,383,388,113 |
| 2010 | 243,772,596 | 56,985,679 | 0 | -24,237,257 | -292,676,769 | 6,367,232,362 |
| 2011 | 258,128,093 | 59,611,897 | 0 | 120,048,766 | -320,514,561 | 6,484,506,557 |
| 2012 | 278,090,808 | 68,630,635 | 0 | 299,992,593 | -341,728,255 | 6,789,492,338 |
| 2013 | 303,080,499 | 91,055,576 | 0 | 388,686,270 | -367,396,205 | 7,204,918,478 |
| 2014 | 330,330,400 | 89,860,998 | 0 | 524,022,197 | -397,823,478 | 7,751,308,595 |

⁽¹⁾ Net of investment fees and administrative expenses.



EXHIBIT G

Actuarial Balance Sheet

An overview of the plan's funding is given by an Actuarial Balance Sheet. In this approach, we first determine the amount and timing of all future payments that will be made by the Plan for current participants. We then discount these payments at the valuation interest rate to the date of the valuation, thereby determining their present value. We refer to this present value as the "liability" of the Plan.

Second, we determine how this liability will be met. These actuarial "assets" include the net amount of assets already accumulated by the Plan, the present value of future member contributions, the present value of future employer normal cost contributions, and the present value of future employer amortization payments.

Total SBCFRA (\$ in 000s)(1)

| | | TOTAL SECENA (\$ III 0005) | | | |
|-----|------------------------------------------------------------------------|----------------------------|----------------------------|--|--|
| As | <u>sets</u> | June 30, 2014 | June 30, 2013 | | |
| 1 | Total valuation value of assets | \$7,702,995 ⁽²⁾ | \$7,159,764 ⁽³⁾ | | |
| 2 | Present value of future contributions by members | 1,091,084 | 1,001,520 | | |
| 3 | Present value of future employer contributions for: | | | | |
| | a. entry age normal cost | 1,366,387 | 1,198,797 | | |
| | b. unfunded actuarial accrued liability | 1,957,247 | 1,891,257 | | |
| 4 | Total current and future assets | \$12,117,713 | \$11,251,338 | | |
| Lia | <u>abilities</u> | | | | |
| 5 | Present value of benefits for retirees and beneficiaries | \$4,845,121 | \$4,375,544 | | |
| 6 | Present value of benefits for active members | 6,912,102 | 6,576,123 | | |
| 7 | Present value of benefits for vested terminated members ⁽⁴⁾ | 360,490 | 299,671 | | |
| 8 | Total liabilities | \$12.117.713 | \$11.251.338 | | |

⁽¹⁾ Excludes assets and liabilities for Survivor Benefit, Burial Allowance and Excess Earnings reserves.



⁽²⁾ Includes \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer as of June 30, 2014.

⁽³⁾ Includes \$5.8 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer as of June 30, 2013.

⁴⁾ Includes terminated members due a refund of member contributions plus accumulated interest.

EXHIBIT H
Summary of Allocated Reserves

| Reserves | June 30, 2014 | June 30, 2013 |
|--------------------------------------------------|-----------------|-----------------|
| Member deposit reserve (1) | \$1,200,775,858 | \$1,157,215,624 |
| Current service reserve (1) | 1,981,392,687 | 1,850,525,583 |
| Contra account (1) | (1,909,880,452) | (1,730,942,713) |
| Pension reserve (1) | 3,506,563,808 | 3,255,044,777 |
| Cost-of-living reserve (1) | 1,468,123,518 | 1,345,342,272 |
| Annuity reserve (1) | 1,440,931,311 | 1,267,682,734 |
| Supplemental disability reserve (1) | 9,184,971 | 9,128,223 |
| Survivor benefit reserve (1) | 53,391,487 | 50,051,071 |
| Valuation reserves (2) | \$7,750,483,188 | \$7,204,047,571 |
| Burial allowance reserve (3) | \$825,407 | \$870,907 |
| Restricted balance reserved for deficiencies (3) | 0 | 0 |
| Additional contingency reserve (3) | 0 | 0 |
| Undesignated excess earnings (3) | 0 | 0 |
| Total reserves | \$7,751,308,595 | \$7,204,918,478 |
| Net unrecognized gains/(losses) | 243,761,944 | (100,364,618) |
| Net market value | \$7,995,070,539 | \$7,104,553,860 |

⁽¹⁾ Included in valuation value of assets.



The June 30, 2014 and June 30, 2013 values exclude \$5.9 million and \$5.8 million, respectively. These amounts represent the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

⁽³⁾ Not included in valuation value of assets.

EXHIBIT I Development of Unfunded Actuarial Accrued Liability for Year Ended June 30, 2014

| 1. | Unfunded actuarial accrued liability at beginning of year ⁽¹⁾ | | \$1,891,257,000 |
|----|--------------------------------------------------------------------------|--------------------|------------------------|
| 2. | Total normal cost at middle of year | | 278,304,000 |
| 3. | Expected employer and member contributions ⁽²⁾ | | -451,447,000 |
| 4. | Interest for whole year on (1) and half year on $(2) + (3)$ | | 148,882,000 |
| 5. | Expected unfunded actuarial accrued liability before plan changes | | <u>\$1,866,996,000</u> |
| 6. | Actuarial (gain)/loss due to all changes | | |
| | (a) Investment return | \$35,160,000 | |
| | (b) Actual contributions less than expected | 32,440,000 | |
| | (c) Lower than expected individual salary increases | -227,699,000 | |
| | (d) Other experience | -81,354,000 | |
| | (e) Changes in actuarial assumptions | <u>331,704,000</u> | |
| | (f) Total changes | | \$90,251,000 |
| 7. | Unfunded actuarial accrued liability at end of year ⁽¹⁾ | | <u>\$1,957,247,000</u> |

Note: The "Net gain/(loss) from other experience" of \$48,914,000 shown in Section 2, Chart 10 is equal to the sum of items 6(b) and 6(d).

Note: Results include three withdrawn employers as of June 30, 2014.



⁽¹⁾ Excludes Survivor Benefit Reserve which had a surplus of assets over liabilities of \$13,307,000 at the beginning of the year and \$19,633,000 at the end of the year. Beginning of the year and end of the year values are reduced by \$5,766,883 and \$5,902,901, respectively. These amounts represent the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District Transfer.

⁽²⁾ Excludes contributions made to the Survivor Benefit Reserve during the year ended June 30, 2014.

EXHIBIT J

Table of Amortization Bases

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|----------------|------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| County General | June 30, 2002 | Restart Amortization | \$59,439,000 | \$47,324,000 | 8 | \$6,942,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 246,112,000 | 207,767,000 | 9 | 27,554,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 132,439,000 | 116,829,000 | 10 | 14,180,000 |
| | June 30, 2004 | POB Credit | (306,658,000) | (270,513,000) | 10 | (32,833,000) |
| | June 30, 2005 | Actuarial (Gain)/Loss | 58,743,000 | 53,913,000 | 11 | 6,049,000 |
| | June 30, 2005 | Assumption Change | 55,627,000 | 51,051,000 | 11 | 5,728,000 |
| | June 30, 2006 | Actuarial (Gain)/Loss | (12,586,000) | (11,876,000) | 12 | (1,242,000) |
| | June 30, 2007 | Actuarial (Gain)/Loss | (32,324,000) | (31,212,000) | 13 | (3,062,000) |
| | June 30, 2008 | Actuarial (Gain)/Loss | (10,022,000) | (9,841,000) | 14 | (911,000) |
| | June 30, 2008 | Assumption Change | (9,277,000) | (9,101,000) | 14 | (843,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 116,693,000 | 115,837,000 | 15 | 10,176,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 283,409,000 | 283,250,000 | 16 | 23,708,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 169,715,000 | 170,148,000 | 17 | 13,620,000 |
| | June 30, 2011 | Assumption Change | 199,335,000 | 199,841,000 | 17 | 15,997,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 70,313,000 | 70,642,000 | 18 | 5,426,000 |
| | June 30, 2012 | Burial Allowance Method Change | 2,392,000 | 2,408,000 | 18 | 185,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | 36,166,000 | 36,299,000 | 19 | 2,684,000 |
| | June 30, 2014 | Actuarial (Gain)/Loss | (143,442,000) | (143,442,000) | 20 | (10,235,000) |
| | June 30, 2014 | Assumption Change | 186,163,000 | 186,163,000 | 20 | 13,283,000 |
| Subtotal | | | | \$1,065,487,000 | | \$96,406,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|-----------------------|------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| Superior Court | June 30, 2002 | Restart Amortization | \$3,493,000 | \$2,783,000 | 8 | \$408,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 14,458,000 | 12,214,000 | 9 | 1,620,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 6,840,000 | 6,035,000 | 10 | 732,000 |
| | June 30, 2005 | Actuarial (Gain)/Loss | 3,451,000 | 3,168,000 | 11 | 355,000 |
| | June 30, 2005 | Assumption Change | 3,269,000 | 2,992,000 | 11 | 336,000 |
| | June 30, 2006 | Actuarial (Gain)/Loss | 4,889,000 | 4,611,000 | 12 | 482,000 |
| | June 30, 2007 | Actuarial (Gain)/Loss | 4,076,000 | 3,929,000 | 13 | 386,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 729,000 | 718,000 | 14 | 66,000 |
| | June 30, 2008 | Assumption Change | (1,520,000) | (1,515,000) | 14 | (140,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 6,270,000 | 6,222,000 | 15 | 547,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 10,935,000 | 10,939,000 | 16 | 916,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 8,620,000 | 8,647,000 | 17 | 692,000 |
| | June 30, 2011 | Assumption Change | 10,323,000 | 10,348,000 | 17 | 828,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 3,000 | 0 | 18 | 0 |
| | June 30, 2012 | Burial Allowance Method Change | 68,000 | 68,000 | 18 | 5,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | (2,565,000) | (2,573,000) | 19 | (190,000) |
| | June 30, 2014 | Actuarial (Gain)/Loss | (5,786,000) | (5,786,000) | 20 | (413,000) |
| | June 30, 2014 | Assumption Change | 10,501,000 | 10,501,000 | 20 | 749,000 |
| Subtotal | | | | \$73,301,000 | | \$7,379,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|---------------|------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| Other General | June 30, 2002 | Restart Amortization | \$13,036,000 | \$10,361,000 | 8 | \$1,520,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 9,507,000 | 8,015,000 | 9 | 1,063,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 5,542,000 | 4,888,000 | 10 | 593,000 |
| | June 30, 2005 | Actuarial (Gain)/Loss | 6,630,000 | 6,085,000 | 11 | 683,000 |
| | June 30, 2005 | Assumption Change | (490,000) | (454,000) | 11 | (51,000) |
| | June 30, 2006 | Actuarial (Gain)/Loss | 2,390,000 | 2,236,000 | 12 | 234,000 |
| | June 30, 2007 | Actuarial (Gain)/Loss | 1,995,000 | 1,938,000 | 13 | 190,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 4,106,000 | 4,017,000 | 14 | 372,000 |
| | June 30, 2008 | Assumption Change | (278,000) | (281,000) | 14 | (26,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 5,568,000 | 5,524,000 | 15 | 485,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 11,345,000 | 11,336,000 | 16 | 949,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 9,098,000 | 9,114,000 | 17 | 730,000 |
| | June 30, 2011 | Assumption Change | 8,263,000 | 8,283,000 | 17 | 663,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 2,766,000 | 2,774,000 | 18 | 213,000 |
| | June 30, 2012 | Burial Allowance Method Change | 71,000 | 68,000 | 18 | 5,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | 4,155,000 | 4,175,000 | 19 | 309,000 |
| | June 30, 2014 | Actuarial (Gain)/Loss | (6,086,000) | (6,086,000) | 20 | (434,000) |
| | June 30, 2014 | Assumption Change | 7,714,000 | <u>7,714,000</u> | 20 | 550,000 |
| Subtotal | | | | \$79,707,000 | | \$8,048,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|----------|-------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| SCAQMD | June 30, 2002 | Restart Amortization | \$18,462,000 | \$14,703,000 | 8 | \$2,157,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 27,792,000 | 23,465,000 | 9 | 3,112,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 24,821,000 | 21,950,000 | 10 | 2,664,000 |
| | June 30, 2004 | POB Credit | (46,375,000) | (40,998,000) | 10 | (4,976,000) |
| | June 30, 2005 | Actuarial (Gain)/Loss | 11,432,000 | 10,521,000 | 11 | 1,180,000 |
| | June 30, 2005 | Assumption Change | (3,613,000) | (3,325,000) | 11 | (373,000) |
| | June 30, 2006 | Actuarial (Gain)/Loss | (1,328,000) | (1,262,000) | 12 | (132,000) |
| | December 31, 2006 | UAAL Prepayment | (10,000,000) | (9,559,000) | 12.5 | (967,000) |
| | June 30, 2007 | Actuarial (Gain)/Loss | 12,093,000 | 11,682,000 | 13 | 1,146,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 16,095,000 | 15,789,000 | 14 | 1,462,000 |
| | June 30, 2008 | Assumption Change | 1,425,000 | 1,403,000 | 14 | 130,000 |
| | June 30, 2009 | Actuarial (Gain)/Loss | 8,947,000 | 8,884,000 | 15 | 780,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 34,808,000 | 34,792,000 | 16 | 2,912,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 26,766,000 | 26,824,000 | 17 | 2,147,000 |
| | June 30, 2011 | Assumption Change | 21,411,000 | 21,462,000 | 17 | 1,718,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 6,060,000 | 6,089,000 | 18 | 468,000 |
| | June 30, 2012 | Burial Allowance Method Change | 131,000 | 122,000 | 18 | 9,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | 4,599,000 | 4,611,000 | 19 | 341,000 |
| | June 30, 2014 | Actuarial (Gain)/Loss | (39,137,000) | (39,137,000) | 20 | (2,792,000) |
| | June 30, 2014 | Assumption Change | 19,750,000 | 19,750,000 | 20 | 1,409,000 |
| Subtotal | | | | \$127,766,000 | | \$12,395,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|----------------------|------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| County Safety | June 30, 2002 | Restart Amortization | \$(60,995,000) | \$(48,556,000) | 8 | \$(7,123,000) |
| | June 30, 2003 | Actuarial (Gain)/Loss | 217,129,000 | 183,307,000 | 9 | 24,310,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 79,018,000 | 69,839,000 | 10 | 8,477,000 |
| | June 30, 2004 | POB Credit | (152,154,000) | (134,464,000) | 10 | (16,320,000) |
| | June 30, 2005 | Actuarial (Gain)/Loss | 40,502,000 | 37,158,000 | 11 | 4,169,000 |
| | June 30, 2005 | Assumption Change | (13,211,000) | (12,124,000) | 11 | (1,360,000) |
| | June 30, 2006 | Actuarial (Gain)/Loss | (10,481,000) | (9,888,000) | 12 | (1,034,000) |
| | June 30, 2007 | Actuarial (Gain)/Loss | 6,795,000 | 6,567,000 | 13 | 644,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 7,882,000 | 7,743,000 | 14 | 717,000 |
| | June 30, 2008 | Assumption Change | (932,000) | (920,000) | 14 | (85,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 66,962,000 | 66,483,000 | 15 | 5,841,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 112,338,000 | 112,284,000 | 16 | 9,398,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 106,078,000 | 106,347,000 | 17 | 8,513,000 |
| | June 30, 2011 | Assumption Change | 71,626,000 | 71,811,000 | 17 | 5,748,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 41,280,000 | 41,471,000 | 18 | 3,186,000 |
| | June 30, 2012 | Burial Allowance Method Change | 343,000 | 338,000 | 18 | 26,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | 37,563,000 | 37,705,000 | 19 | 2,788,000 |
| | June 30, 2014 | Actuarial (Gain)/Loss | (37,823,000) | (37,823,000) | 20 | (2,699,000) |
| | June 30, 2014 | Assumption Change | 105,421,000 | 105,421,000 | 20 | 7,522,000 |
| Subtotal | | | | \$602,699,000 | | \$52,718,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|--------------|------------------|--------------------------------|-------------------|------------------------|--------------------|-------------------|
| Other Safety | June 30, 2002 | Restart Amortization | \$2,742,000 | \$2,181,000 | 8 | \$320,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 949,000 | 783,000 | 9 | 104,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 910,000 | 805,000 | 10 | 98,000 |
| | June 30, 2004 | Plan Change | 1,245,000 | 1,096,000 | 10 | 133,000 |
| | June 30, 2005 | Actuarial (Gain)/Loss | 50,000 | 46,000 | 11 | 5,000 |
| | June 30, 2005 | Assumption Change | (95,000) | (93,000) | 11 | (10,000) |
| | June 30, 2006 | Actuarial (Gain)/Loss | 187,000 | 179,000 | 12 | 19,000 |
| | June 30, 2007 | Actuarial (Gain)/Loss | 703,000 | 688,000 | 13 | 68,000 |
| | June 30, 2007 | Plan Change | 586,000 | 561,000 | 13 | 55,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 663,000 | 651,000 | 14 | 60,000 |
| | June 30, 2008 | Assumption Change | (110,000) | (101,000) | 14 | (9,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 1,703,000 | 1,680,000 | 15 | 148,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 1,467,000 | 1,478,000 | 16 | 124,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 596,000 | 610,000 | 17 | 49,000 |
| | June 30, 2011 | Assumption Change | 1,276,000 | 1,272,000 | 17 | 102,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 1,587,000 | 1,597,000 | 18 | 123,000 |
| | June 30, 2012 | Burial Allowance Method Change | 5,000 | 14,000 | 18 | 1,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | (472,000) | (478,000) | 19 | (35,000) |
| | June 30, 2014 | Actuarial (Gain)/Loss | (386,000) | (386,000) | 20 | (28,000) |
| | June 30, 2014 | Assumption Change | 1,884,000 | 1,884,000 | 20 | 134,000 |
| Subtotal | | | | \$14,467,000 | | \$1,461,000 |



EXHIBIT J

Table of Amortization Bases (continued)

| | Date Established | Source | Initial Amount | Outstanding Balance | Years Remaining | Annual Payment |
|--------------|-------------------|-----------------------|-------------------|------------------------|--------------------|-------------------|
| Combined | June 30, 2002 | Restart Amortization | \$36,177,000 | \$28,796,000 | 8 | \$4,224,000 |
| | June 30, 2003 | Actuarial (Gain)/Loss | 515,947,000 | 435,551,000 | 9 | 57,763,000 |
| | June 30, 2004 | Actuarial (Gain)/Loss | 249,570,000 | 220,346,000 | 10 | 26,744,000 |
| | June 30, 2004 | POB Credit | (505,187,000) | (445,975,000) | 10 | (54,129,000) |
| | June 30, 2004 | Plan Change | 1,245,000 | 1,096,000 | 10 | 133,000 |
| | June 30, 2005 | Actuarial (Gain)/Loss | 120,808,000 | 110,891,000 | 11 | 12,441,000 |
| | June 30, 2005 | Assumption Change | 41,487,000 | 38,047,000 | 11 | 4,270,000 |
| | June 30, 2006 | Actuarial (Gain)/Loss | (16,929,000) | (16,000,000) | 12 | (1,673,000) |
| | December 31, 2006 | UAAL Prepayment | (10,000,000) | (9,559,000) | 12.5 | (967,000) |
| | June 30, 2007 | Actuarial (Gain)/Loss | (6,662,000) | (6,408,000) | 13 | (628,000) |
| | June 30, 2007 | Plan Change | 586,000 | 561,000 | 13 | 55,000 |
| | June 30, 2008 | Actuarial (Gain)/Loss | 19,453,000 | 19,077,000 | 14 | 1,766,000 |
| | June 30, 2008 | Assumption Change | (10,692,000) | (10,515,000) | 14 | (973,000) |
| | June 30, 2009 | Actuarial (Gain)/Loss | 206,143,000 | 204,630,000 | 15 | 17,977,000 |
| | June 30, 2010 | Actuarial (Gain)/Loss | 454,302,000 | 454,079,000 | 16 | 38,007,000 |
| | June 30, 2011 | Actuarial (Gain)/Loss | 320,873,000 | 321,690,000 | 17 | 25,751,000 |
| | June 30, 2011 | Assumption Change | 312,234,000 | 313,017,000 | 17 | 25,056,000 |
| | June 30, 2012 | Actuarial (Gain)/Loss | 122,009,000 | 122,573,000 | 18 | 9,416,000 |
| | June 30, 2012 | Burial Allowance | 3,010,000 | 3,018,000 | 18 | 231,000 |
| | June 30, 2013 | Actuarial (Gain)/Loss | 79,446,000 | 79,739,000 | 19 | 5,897,000 |
| | June 30, 2014 | Actuarial (Gain)/Loss | (232,660,000) | (232,660,000) | 20 | (16,601,000) |
| | June 30, 2014 | Assumption Change | 331,433,000 | 331,433,000 | 20 | 23,647,000 |
| Grand Total* | | | | \$1,963,427,000 | | \$178,407,000 |

^{*} Excludes three withdrawn employers as of June 2014. Using ongoing valuation assumptions, their UAAL as of the June 30, 2014 was \$(6,180,000) with \$(8,793,000) due to an actuarial gain and \$271,000 due to a loss from changes in actuarial assumptions in their UAAL during 2013/2014. The \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District Transfer has been reflected in this Exhibit.



EXHIBIT K

Section 415 Limitations

Section 415 of the Internal Revenue Code (IRC) specifies the maximum benefits that may be paid to an individual from a defined benefit plan and the maximum amounts that may be allocated each year to an individual's account in a defined contribution plan.

A qualified pension plan may not pay benefits in excess of the Section 415 limits. The ultimate penalty for noncompliance is disqualification: active participants could be taxed on their vested benefits and the IRS may seek to tax the income earned on the plan's assets.

In particular, Section 415(b) of the IRC limits the maximum annual benefit payable at the Normal Retirement Age to a dollar limit of \$160,000 indexed for inflation. That limit is \$205,000 for 2013 and \$210,000 for 2014. Normal Retirement Age is generally age 62 for these purposes. These are the limits in simplified terms. They must be adjusted based on each participant's circumstances, for such things as age at retirement, form of benefits chosen and after-tax contributions. Limits are also affected by the "grandfather" election under Section 415(b)(10).

For non-Tier 2 members, benefits in excess of the limits may be paid through a qualified governmental excess plan that meets the requirements of Section 415(m) of the IRC and Section 7522.43 of PEPRA.

Legal Counsel's review and interpretation of the law and regulations should be sought on any questions in this regard.

Contribution rates determined in this valuation have not been reduced for the Section 415 limitations. Actual limitations will result in gains as they occur.



SECTION 3: Supplemental Information for San Bernardino County Employees' Retirement Association

EXHIBIT L

Definitions of Pension Terms

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

Assumptions or Actuarial Assumptions:

The estimates on which the cost of the Plan is calculated including:

- (a) <u>Investment return</u> the rate of investment yield that the Plan will earn over the long-term future;
- (b) <u>Mortality rates</u> the death rates of employees and pensioners; life expectancy is based on these rates;
- (c) <u>Retirement rates</u> the rate or probability of retirement at a given age; and
- (d) <u>Turnover rates</u> the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.

Normal Cost:

The amount of contributions required to fund the cost allocated to the current year of service.

Actuarial Accrued Liability For Actives:

The equivalent of the accumulated normal costs allocated to the years before the valuation date

Actuarial Accrued Liability For Pensioners:

The single sum value of lifetime benefits to existing pensioners. This sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.



SECTION 3: Supplemental Information for San Bernardino County Employees' Retirement Association

Unfunded Actuarial Accrued

Liability:

The extent to which the actuarial accrued liability of the Plan exceeds the assets of the

Plan.

Amortization of the Unfunded Actuarial Accrued Liability:

Payments made over a period of years equal in value to the Plan's unfunded actuarial

accrued liability.

Investment Return: The rate of earnings of the Plan from its investments, including interest, dividends and

capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of market gains and losses to avoid significant swings in the value of assets from one

year to the next.



| EX | HIBIT I | | |
|----|-------------------------------------------------------------------------------------------------|-------------|-------------|
| Su | mmary of Actuarial Valuation Results | | |
| Th | e valuation was made with respect to the following data supplied to us: | | |
| 1. | Retired members as of the valuation date (including 1,463 beneficiaries in pay status) | | 10,618 |
| 2. | Members inactive during year ended June 30, 2014 with vested rights | | 4,356 |
| 3. | Members active during the year ended June 30, 2014 | | 19,497 |
| Th | e actuarial factors as of the valuation date are as follows (amounts in 000s): | | |
| 1. | Normal cost | | \$304,101 |
| 2. | Present value of future benefits | | 12,117,713 |
| 3. | Present value of future normal costs | | 2,457,471 |
| 4. | Actuarial accrued liability* | | 9,660,242 |
| | Retired members and beneficiaries | \$4,845,121 | |
| | Inactive members with vested rights | 360,490 | |
| | Active members | 4,454,631 | |
| 5. | Valuation value of assets** (\$7,995,071 at market value as reported by Retirement Association) | | 7,702,995 |
| 6. | Unfunded actuarial accrued liability | | \$1,957,247 |

^{*} Excludes liabilities held for Survivor Benefit, Burial Allowance and Excess Earnings reserves.

Note: Results include three withdrawn employers as of June 30, 2014.



^{**} Excludes assets held for Survivor Benefit, Burial Allowance and Excess Earnings reserves. Includes \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

EXHIBIT I (continued)

Summary of Actuarial Valuation Results

| Th | e determination of the recommended average employer contribution is as follows | | |
|-----|--------------------------------------------------------------------------------|-----------------|----------------|
| (ar | nounts in 000s): | Dollar Amount | % of Payroll |
| 1. | Total normal cost | \$304,101 | 23.99% |
| 2. | Expected employee contributions | <u>-140,212</u> | <u>-11.06%</u> |
| 3. | Employer normal cost: $(1) + (2)$ | \$163,889 | 12.93% |
| 4. | Amortization of unfunded actuarial accrued liability | <u>181,740</u> | 14.34% |
| 5. | Total recommended average employer contribution: (3) + (4) | \$345,629 | 27.27% |
| 8. | Projected compensation | \$1,267,667 | |

Note: Results exclude three withdrawn employers.



EXHIBIT II

Supplementary Information Required by GASB 27 – Schedule of Employer Contributions

| Plan Year Ended June 30 | Annual Required Contributions | Actual Contributions ⁽³⁾ | Percentage Contributed |
|----------------------------|-------------------------------|----------------------------------------|---------------------------|
| 2009 | \$246,232,000 | \$246,232,000 | 100.0% |
| 2010 | 243,773,000 | 243,773,000 | 100.0% |
| 2011 | 258,128,000 | 258,128,000 | 100.0% |
| 2012 | 278,091,000 | 278,091,000 | 100.0% |
| 2013 | $303,080,000^{(1)}$ | 303,080,000 | 100.0% |
| 2014 | $330,330,400^{(2)}$ | 330,330,400 | 100.0% |

⁽¹⁾ Due to the three-year phase-in of the effect of the changes in actuarial assumptions from the June 30, 2011 valuation, this was determined using an amortization period of 20.95 years (an amortization period of up to 30 years is allowed by GASB).

Note: Please refer to last paragraph on page iii regarding the inclusion of GASB 27 information in this report.



⁽²⁾ Due to the three-year phase-in of the effect of the changes in actuarial assumptions from the June 30, 2012 valuation, this was determined using an amortization period of 17.58 years (an amortization period of up to 30 years is allowed by GASB).

⁽³⁾ Includes contributions required for the Survivor Benefit, employer paid member contributions, UAAL prepayments, golden handshake payments, funds deposited by employers for purchase of service credit, payments made by withdrawn employers and member paid employer contributions.

EXHIBIT III

Supplementary Information Required by GASB 27 – Schedule of Funding Progress

| Actuarial Valuation Date | Actuarial Value of Assets ⁽¹⁾ (a) | Actuarial Accrued Liability ("AAL") ⁽²⁾ (b) | Unfunded/ (Overfunded) AAL ("UAAL") (b) - (a) | Funded Ratio (a) / (b) | Projected Total Compensation (c) | UAAL as a Percentage of Projected Total Compensation [(b) - (a)] / (c) |
|--------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|------------------------------|----------------------------------------|------------------------------------------------------------------------------------|
| 06/30/2009 | \$6,383,388,113 | \$7,013,534,026 | \$630,145,913 | 91.02% | \$1,226,431,276 | 51.38% |
| $06/30/2010^{(3)}$ | 6,367,232,362 | 7,444,986,223 | 1,077,753,861 | 85.52% | 1,250,192,961 | 86.21% |
| 06/30/2011 | 6,484,506,557 | 8,189,645,890 | 1,705,139,333 | 79.18% | 1,244,554,740 | 137.01% |
| 06/30/2012 | 6,789,492,338 | 8,606,576,657 | 1,817,084,319 | 78.89% | 1,260,309,037 | 144.18% |
| $06/30/2013^{(4)}$ | 7,204,918,478 | 9,088,635,907 | 1,883,717,429 | 79.27% | 1,262,751,964 | 149.18% |
| $06/30/2014^{(5)}$ | 7,751,308,595 | 9,694,825,407 | 1,943,516,812 | 79.95% | 1,267,666,810 | 153.31% |

⁽¹⁾ Includes assets for Survivor Benefit, Burial Allowance, General Retiree Subsidy, and Excess Earnings reserves.



⁽²⁾ Includes liabilities held for Survivor Benefit, Burial Allowance, General Retiree Subsidy, and Excess Earnings reserves.

⁽³⁾ Does not reflect the transfer of \$40.6 million from the General Retiree Subsidy reserve to the Current Service reserve.

⁽⁴⁾ Does not reflect \$5.8 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

⁽⁵⁾ Does not reflect \$5.9 million that represents the present value of additional future contributions payable from the County to SBCERA related to the Crest Forest Fire District transfer.

EXHIBIT IV

Supplementary Information Required by GASB 27

| Valuation Date | June 30, 2014 |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actuarial Cost Method | Entry Age Actuarial Cost Method |
| Amortization Method | Level percent of payroll (3.75% payroll growth assumed) |
| Remaining Amortization Period | 20 years for all UAAL prior to June 30, 2002. Any changes in UAAL after June 30, 2002 are amortized over a 20-year closed period effective with each valuation. Effective June 30, 2011, any changes in UAAL due to actuarial gains or losses or due to changes in actuarial assumptions or methods will be amortized over a 20-year closed period effective with each valuation. Any change in unfunded actuarial accrued liability that arises due to plan amendments is amortized over its own declining 15-year period (with exception of a change due to retirement incentives, which is amortized over a declining period of up to 5 years). |
| Asset Valuation Method | Market value of assets less unrecognized returns from each of the last five years. Unrecognized returns are equal to the difference between the actual market return and the expected return on a market value basis and are recognized over a five-year period. The Actuarial Value of Assets is reduced by the value of the non-valuation reserves. Deferred gains and losses as of June 30, 2011 have been combined and will be recognized in equal amounts over a period of four years from that date. |
| Actuarial Assumptions: | |
| Investment Rate of Return* | 7.50%, net of pension plan investment expense, including inflation |
| Administrative Expense | 0.60% of payroll allocated to both the employer and member based on the components of the total contribution rate (before expenses) for the employer and member. |
| Projected Salary Increases** | General: 4.60% to 13.75%; Safety: 4.55% to 13.75%. |
| Cost of Living Adjustments | 2.00% (actual increases contingent upon CPI increases with a 2% maximum). |
| Plan Membership: | |
| Retirees and Beneficiaries receiving benefits*** | 10,618 |
| Terminated plan members entitled to, but not yet | receiving benefits 4,356 |
| Active plan members | <u>19,497</u> |
| Total | 34,471 |

^{*} Includes inflation at 3.25%.

^{***} Excludes beneficiaries that are only receiving Survivor Benefit payments.



^{**} Includes inflation at 3.25%, "across the board" increases of 0.50%, plus merit and promotional increases. See Exhibit V for these increases.

EXHIBIT V

Actuarial Assumptions and Methods

Unless otherwise noted, all actuarial assumptions and methods shown below apply to both Tier 1 and Tier 2 members.

Actuarial Assumptions

Mortality Rates:

Healthy: For General Members: RP-2000 Combined Healthy Mortality Table projected with

Scale BB to 2020.

For Safety Members: RP-2000 Combined Healthy Mortality Table projected with

Scale BB to 2020 with ages set back two years for males and one year for females.

Disabled: For General Members: RP-2000 Combined Healthy Mortality Table projected with

Scale BB to 2020 with ages set forward seven years for males and set forward eight

years for females.

For Safety Members: RP-2000 Combined Healthy Mortality Table projected with

Scale BB to 2020 with ages set forward two years.

Beneficiaries: Beneficiaries are assumed to have the same mortality as a General Member of the

opposite sex who is receiving a service (non-disability) retirement.

The RP-2000 mortality tables projected with Scale BB to 2011 and adjusted as shown above reasonably reflects the projected future mortality experience as of the measurement date. The additional projection to 2020 is a provision for future mortality improvement.

Member Contribution Rates: For General Members: RP-2000 Combined Healthy Mortality Table projected with

Scale BB to 2020 weighted 30% male and 70% female.

For Safety Members: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2020 with ages set back two years for males and set back one year for

females weighted 85% male and 15% female.



Termination Rates Before Retirement:

Rate (%)
Mortality

| | | Mortality | | |
|-----|------|-----------|------|--------|
| | Gei | neral | Sa | fety |
| Age | Male | Female | Male | Female |
| 25 | 0.04 | 0.02 | 0.04 | 0.02 |
| 30 | 0.04 | 0.02 | 0.04 | 0.02 |
| 35 | 0.07 | 0.04 | 0.06 | 0.04 |
| 40 | 0.10 | 0.07 | 0.09 | 0.06 |
| 45 | 0.14 | 0.11 | 0.12 | 0.10 |
| 50 | 0.20 | 0.16 | 0.18 | 0.15 |
| 55 | 0.34 | 0.25 | 0.27 | 0.22 |
| 60 | 0.59 | 0.41 | 0.48 | 0.37 |
| 65 | 1.00 | 0.76 | 0.82 | 0.68 |
| 70 | 1.64 | 1.32 | 1.32 | 1.17 |
| | | | | |

All pre-retirement deaths are assumed to be non-service connected.



| | Rate (%) Disability | |
|-----|------------------------|-----------------------|
| Age | General ⁽¹⁾ | Safety ⁽²⁾ |
| 25 | 0.03 | 0.26 |
| 30 | 0.04 | 0.30 |
| 35 | 0.07 | 0.48 |
| 40 | 0.09 | 0.72 |
| 45 | 0.19 | 0.98 |
| 50 | 0.31 | 2.09 |
| 55 | 0.44 | 4.70 |
| 60 | 0.65 | 6.60 |
| 65 | 1.02 | 0.00 |
| 70 | 1.26 | 0.00 |

⁽¹⁾ 50% of General disabilities are assumed to be service connected (duty) disabilities and the other 50% are assumed to be non-service connected (ordinary) disabilities.



^{(2) 100%} of Safety disabilities are assumed to be service connected (duty) disabilities.

Rate (%)

| Withdrawal* | | | | | |
|------------------|---------|--------|--|--|--|
| Years of Service | General | Safety | | | |
| Less than 1 | 15.00 | 4.25 | | | |
| 1 | 10.00 | 3.50 | | | |
| 2 | 8.00 | 3.25 | | | |
| 3 | 7.00 | 2.50 | | | |
| 4 | 5.00 | 2.00 | | | |
| 5 | 4.75 | 1.75 | | | |
| 6 | 4.50 | 1.50 | | | |
| 7 | 4.25 | 1.40 | | | |
| 8 | 4.00 | 1.30 | | | |
| 9 | 3.75 | 1.20 | | | |
| 10 | 3.75 | 1.20 | | | |
| 11 | 3.75 | 1.10 | | | |
| 12 | 3.50 | 1.10 | | | |
| 13 | 3.50 | 1.00 | | | |
| 14 | 3.25 | 1.00 | | | |
| 15 | 3.25 | 1.00 | | | |
| 16 | 3.00 | 1.00 | | | |
| 17 | 3.00 | 1.00 | | | |
| 18 | 2.75 | 1.00 | | | |
| 19 | 2.75 | 1.00 | | | |
| 20 or more | 2.50 | 1.00 | | | |

^{*}Refer to the next table that contains rates for electing a refund of contributions upon withdrawal. No withdrawal is assumed after a member is first assumed to retire.



Rate (%)

| Electing a Refund of Contributions upon Termination | | | | | |
|-----------------------------------------------------|------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--|
| | Gen | neral | Sat | fety | |
| Years of Service | Rate if Elected Refundable Contributions | Rate if Elected Refundable Contributions | Rate if Elected Non-refundable Contributions | Rate if Elected Non-refundable Contributions | |
| Less than 5 | 100.00 | 100.00 | 100.00 | 100.00 | |
| 5 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 6 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 7 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 8 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 9 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 10 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 11 | 40.00 | 20.00 | 25.00 | 12.50 | |
| 12 | 40.00 | 20.00 | 15.00 | 7.50 | |
| 13 | 40.00 | 20.00 | 15.00 | 7.50 | |
| 14 | 40.00 | 20.00 | 15.00 | 7.50 | |
| 15 | 40.00 | 20.00 | 15.00 | 7.50 | |
| 16 | 40.00 | 20.00 | 10.00 | 5.00 | |
| 17 | 40.00 | 20.00 | 10.00 | 5.00 | |
| 18 | 40.00 | 20.00 | 5.00 | 2.50 | |
| 19 | 40.00 | 20.00 | 5.00 | 2.50 | |
| 20 or more | 20.00 | 10.00 | 0.00 | 0.00 | |



Retirement Rates:

| | | Rates (%) | | |
|-----|-------------------------------|---------------------------------|-----------------------------|--------------------------------|
| Age | General Tier 1 (§31676.15) | General Tier 2 (§7522.20(a)) | Safety Tier 1 (§31664.1) | Safety Tier 2 (§7522.25(d)) |
| 45 | 0.00 | 0.00 | 1.00 | 0.00 |
| 46 | 0.00 | 0.00 | 1.50 | 0.00 |
| 47 | 0.00 | 0.00 | 2.00 | 0.00 |
| 48 | 0.00 | 0.00 | 2.00 | 0.00 |
| 49 | 0.00 | 0.00 | 8.00 | 0.00 |
| 50 | 2.50 | 0.00 | 10.00 | 4.00 |
| 51 | 2.50 | 0.00 | 8.00 | 3.00 |
| 52 | 3.50 | 2.00 | 12.00 | 4.00 |
| 53 | 3.50 | 2.00 | 13.00 | 5.00 |
| 54 | 4.00 | 2.00 | 13.00 | 10.00 |
| 55 | 5.00 | 4.50 | 22.00 | 20.00 |
| 56 | 6.00 | 4.50 | 20.00 | 20.00 |
| 57 | 6.00 | 6.00 | 20.00 | 22.00 |
| 58 | 8.00 | 7.00 | 20.00 | 25.00 |
| 59 | 12.00 | 8.00 | 20.00 | 25.00 |
| 60 | 15.00 | 9.00 | 25.00 | 25.00 |
| 61 | 17.00 | 12.00 | 25.00 | 25.00 |
| 62 | 19.00 | 20.00 | 25.00 | 25.00 |
| 63 | 19.00 | 20.00 | 30.00 | 25.00 |
| 64 | 25.00 | 20.00 | 30.00 | 25.00 |
| 65 | 35.00 | 25.00 | 100.00 | 100.00 |
| 66 | 30.00 | 30.00 | 100.00 | 100.00 |
| 67 | 30.00 | 30.00 | 100.00 | 100.00 |
| 68 | 30.00 | 30.00 | 100.00 | 100.00 |
| 69 | 30.00 | 30.00 | 100.00 | 100.00 |
| 70 | 30.00 | 50.00 | 100.00 | 100.00 |
| 71 | 20.00 | 50.00 | 100.00 | 100.00 |
| 72 | 20.00 | 50.00 | 100.00 | 100.00 |
| 73 | 20.00 | 50.00 | 100.00 | 100.00 |
| 74 | 20.00 | 50.00 | 100.00 | 100.00 |
| 75 | 100.00 | 100.00 | 100.00 | 100.00 |



Retirement Age and Benefit for Deferred Vested Members:

For deferred vested members, we make the following retirement assumption:

General Age: 58

Safety Age: 52

We assume that 40% of future General deferred vested members and 50% of future Safety deferred vested members will continue to work for a reciprocal employer. For

reciprocals, we assume 5.25% compensation increases per annum.

Future Benefit Accruals: 1.0 year of service per year.

Unknown Data for Members: Same as those exhibited by members with similar known characteristics. If not

specified, members are assumed to be male.

Definition of Active Members: All active members of SBCERA as of the valuation date.

Percent Married: 70% of male members and 55% of female members are assumed to be married at pre-

retirement death or retirement.

Age of Spouse: Female (or male) spouses are 3 years younger (or older) than their spouses.

Supplemental Disability Benefit: 30% of future General service connected (duty) disableds are assumed to be eligible

for this benefit; 75% of future General non-service connected (ordinary) disableds are

assumed to be eligible for this benefit

Net Investment Return: 7.50%, net of investment expenses.

Administrative Expenses: 0.60% of payroll allocated to both the employer and member based on the

components of the total average contribution rate (before expenses) for the employer

and member.

Employee Contribution

Crediting Rate: 3.25% (Actual rate is based on six-month Treasury rate).

Consumer Price Index: Increase of 3.25% per year; retiree COLA increases due to CPI are limited to

maximum of 2.00% per year.



Leave Cashouts:

No leave cashouts are assumed to occur during the member's final average earnings period above what the member cashes out on an annual basis.

Salary Increases:

Annual Rate of Compensation Increase

Inflation: 3.25% per year; plus "across the board" salary increases of 0.50% per year; plus the following promotional and merit increases:

| Years of Service | General | Safety |
|------------------|---------|--------|
| Less than 1 | 10.00% | 10.00% |
| 1 | 8.00 | 7.50 |
| 2 | 4.50 | 4.00 |
| 3 | 4.00 | 3.75 |
| 4 | 3.50 | 3.50 |
| 5 | 3.00 | 3.25 |
| 6 | 2.25 | 3.00 |
| 7 | 1.75 | 2.50 |
| 8 | 1.50 | 1.75 |
| 9 | 1.25 | 1.50 |
| 10 | 1.10 | 1.40 |
| 11 | 1.00 | 1.30 |
| 12 | 0.95 | 1.20 |
| 13 | 0.90 | 1.15 |
| 14 | 0.85 | 1.10 |
| 15 | 0.85 | 1.05 |
| 16 | 0.85 | 1.00 |
| 17 | 0.85 | 0.95 |
| 18 | 0.85 | 0.90 |
| 19 | 0.85 | 0.85 |
| 20 and Over | 0.85 | 0.80 |

Increase in Internal Revenue Code Section 401(a)(17) Compensation Limit:

Increase of 3.25% per year from the valuation date.

Increase in Section 7522.10 Compensation Limit:

Increase of 3.25% per year from the valuation date.



Actuarial Methods

Actuarial Cost Method: Entry Age Actuarial Cost Method. Entry Age is the age at the member's hire date.

Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are based on costs allocated as a level percentage of compensation, as if the current

benefit formulas have always been in effect (i.e., "replacement life").

Actuarial Value of Assets: Market value of assets less unrecognized returns from each of the last five years.

Unrecognized returns are equal to the difference between the actual market return and the expected return on the market value, and are recognized over a five-year period. Deferred gains and losses as of June 30, 2011 have been combined and will be

recognized in equal amounts over a period of four years from that date.

Valuation Value of Assets: The Actuarial Value of Assets reduced by the value of the Burial Allowance Reserve,

Undesignated Excess Earnings Reserve, Restricted Balance Reserved for

Deficiencies, and Additional Contingency Reserve. It includes the present value of additional future contributions payable from the County to SBCERA related to the

Crest Forest Fire District Transfer.

Amortization Policy: 20 years for all UAAL prior to June 30, 2002. Any changes in UAAL after June 30,

2002 are amortized over a 20-year closed period effective with each valuation. The UAAL (i.e., the difference between the Actuarial Accrued Liability and the Valuation Value of Assets), as of June 30, 2011 shall continue to be amortized over separate 20-year period amortization layers based on the valuations during which each separate

layer was previously established.

Any new UAAL as a result of actuarial gains or loses identified in the annual

valuation as of June 30 will be amortized over a period of 20 years.

Any new UAAL as a result of change in actuarial assumptions or methods will be

amortized over a period of 20 years.



Unless an alternative amortization period is recommended by the Actuary and accepted by the Board based on the results of an actuarial analysis:

- a. With the exception noted in b., below, the increase in UAAL as a result of any plan amendments will be amortized over a period of 15 years;
- b. The increase in UAAL resulting from a temporary retirement incentive, including the impact of benefits resulting from additional service permitted in Section 31641.04 of the 1937 CERL (Golden Handshake), will be funded over a period of up to 5 years.

UAAL shall be amortized over "closed" amortization periods so that the amortization period for each layer decreases by one year with each actuarial valuation.

UAAL shall be amortized as a level percentage of payroll so that the amortization amount in each year during the amortization period shall be expected to be a level percentage of covered payroll, taking into consideration the current assumption for general payroll increase.

If an overfunding exists (i.e., the total of all UAAL becomes negative so that there is a surplus), such surplus and any subsequent surpluses will be amortized over an "open" amortization period of 30 years. Any prior UAAL amortization layers will be considered fully amortized, and any subsequent UAAL will be amortized over 20 years as the first of a new series of amortization layers.

These amortization policy components will apply separately to each of SBCERA's UAAL cost sharing groups.

Changes in Actuarial Assumptions and Methods:

Based on the actuarial experience study, the following actuarial assumptions were changed. Previously these assumptions were as follows:



Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

Mortality Rates:

Healthy: For All General Members: RP-2000 Combined Healthy Mortality Table set back

two years.

For All Safety Members: RP-2000 Combined Healthy Mortality Table set back

three years.

Disabled: For All General Members: RP-2000 Combined Healthy Mortality Table set forward

four years for males and set forward five years for females.

For All Safety Members: RP-2000 Combined Healthy Mortality Table set forward

one year.

Member Contribution Rates: For All General Members: RP-2000 Combined Healthy Mortality Table set back two

years weighted 30% male and 70% female.

For All Safety Members: RP-2000 Combined Healthy Mortality Table set back three

years weighted 85% male and 15% female.



Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

Termination Rates Before Retirement:

Rate (%) Mortality

| | with tailty | | |
|---------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | | Sa | fety |
| Male | Female | Male | Female |
| 0.04 | 0.02 | 0.04 | 0.02 |
| 0.04 | 0.02 | 0.04 | 0.02 |
| 0.06 | 0.04 | 0.06 | 0.03 |
| 0.10 | 0.06 | 0.09 | 0.06 |
| 0.13 | 0.09 | 0.12 | 0.09 |
| 0.19 | 0.14 | 0.17 | 0.13 |
| 0.29 | 0.22 | 0.27 | 0.20 |
| 0.53 | 0.39 | 0.47 | 0.35 |
| 1.00 | 0.76 | 0.88 | 0.67 |
| | Male 0.04 0.04 0.06 0.10 0.13 0.19 0.29 0.53 | General Male Female 0.04 0.02 0.04 0.02 0.06 0.04 0.10 0.06 0.13 0.09 0.19 0.14 0.29 0.22 0.53 0.39 | Male Female Male 0.04 0.02 0.04 0.04 0.02 0.04 0.06 0.04 0.06 0.10 0.06 0.09 0.13 0.09 0.12 0.19 0.14 0.17 0.29 0.22 0.27 0.53 0.39 0.47 |

All pre-retirement deaths are assumed to be non-service connected.



Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

| | Rate (%) | | |
|-----|------------------------|-----------------------|--|
| | Disability | | |
| Age | General ⁽¹⁾ | Safety ⁽²⁾ | |
| 25 | 0.03 | 0.26 | |
| 30 | 0.04 | 0.36 | |
| 35 | 0.07 | 0.58 | |
| 40 | 0.10 | 0.88 | |
| 45 | 0.20 | 1.15 | |
| 50 | 0.31 | 2.00 | |
| 55 | 0.44 | 4.00 | |
| 60 | 0.65 | 5.60 | |
| 65 | 1.05 | 2.40 | |
| 70 | 1.34 | 0.00 | |

⁽¹⁾ 50% of General disabilities are assumed to be service connected (duty) disabilities and the other 50% are assumed to be non-service connected (ordinary) disabilities.



^{(2) 100%} of Safety disabilities are assumed to be service connected (duty) disabilities.

Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

Termination Rates Before Retirement (continued):

Rate (%)
Withdrawal (< 5 Years of Service)

| Withdrawar ('S rears of Service) | | |
|-----------------------------------|-------|--------|
| Years of Service General Safety | | Safety |
| 0 | 16.00 | 4.50 |
| 1 | 10.00 | 3.75 |
| 2 | 8.50 | 3.25 |
| 3 | 7.00 | 2.75 |
| 4 | 5.50 | 2.25 |

Withdrawal (5+ Years of Service)*

| Age | General | Safety |
|-----|---------|--------|
| 20 | 5.50 | 2.25 |
| 25 | 5.50 | 2.25 |
| 30 | 5.50 | 2.10 |
| 35 | 5.20 | 1.55 |
| 40 | 4.40 | 1.10 |
| 45 | 3.55 | 1.00 |
| 50 | 2.80 | 0.40 |
| 55 | 2.20 | 0.00 |
| 60 | 1.70 | 0.00 |
| 65 | 1.20 | 0.00 |
| 70 | 1.00 | 0.00 |

^{*} For General members, 40% of terminating members will choose a refund of contributions and 60% will choose a deferred vested benefit.

For Safety members, 25% of terminating members will choose a refund of contributions and 75% will choose a deferred vested benefit.

No withdrawal is assumed after a member is first assumed to retire.



<u>Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):</u> Retirement Rates:

| | Rates (%) | | | |
|-----|-------------------------------|---------------------------------|-----------------------------|--------------------------------|
| Age | General Tier 1 (§31676.15) | General Tier 2 (§7522.20(a)) | Safety Tier 1 (§31664.1) | Safety Tier 2 (§7522.25(d)) |
| 45 | 0.00 | 0.00 | 1.00 | 0.00 |
| 46 | 0.00 | 0.00 | 1.00 | 0.00 |
| 47 | 0.00 | 0.00 | 1.00 | 0.00 |
| 48 | 0.00 | 0.00 | 2.00 | 0.00 |
| 49 | 0.00 | 0.00 | 6.00 | 0.00 |
| 50 | 3.00 | 0.00 | 10.00 | 4.00 |
| 51 | 3.00 | 0.00 | 8.00 | 3.00 |
| 52 | 4.00 | 2.00 | 10.00 | 3.00 |
| 53 | 4.00 | 2.00 | 13.00 | 5.00 |
| 54 | 5.00 | 3.00 | 13.00 | 10.00 |
| 55 | 6.00 | 5.00 | 20.00 | 18.00 |
| 56 | 7.00 | 5.00 | 20.00 | 20.00 |
| 57 | 7.00 | 6.00 | 20.00 | 22.00 |
| 58 | 9.00 | 7.00 | 20.00 | 25.00 |
| 59 | 13.00 | 8.00 | 20.00 | 25.00 |
| 60 | 16.00 | 10.00 | 20.00 | 25.00 |
| 61 | 18.00 | 12.50 | 20.00 | 25.00 |
| 62 | 20.00 | 20.00 | 20.00 | 25.00 |
| 63 | 20.00 | 20.00 | 20.00 | 25.00 |
| 64 | 25.00 | 20.00 | 20.00 | 25.00 |
| 65 | 30.00 | 25.00 | 100.00 | 100.00 |
| 66 | 30.00 | 30.00 | 100.00 | 100.00 |
| 67 | 30.00 | 30.00 | 100.00 | 100.00 |
| 68 | 30.00 | 30.00 | 100.00 | 100.00 |
| 69 | 35.00 | 30.00 | 100.00 | 100.00 |
| 70 | 35.00 | 50.00 | 100.00 | 100.00 |
| 71 | 20.00 | 50.00 | 100.00 | 100.00 |
| 72 | 20.00 | 50.00 | 100.00 | 100.00 |
| 73 | 20.00 | 50.00 | 100.00 | 100.00 |
| 74 | 20.00 | 50.00 | 100.00 | 100.00 |
| 75 | 100.00 | 100.00 | 100.00 | 100.00 |



Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

Retirement Age and Benefit for Deferred Vested Members:

For deferred vested members, we make the following retirement assumption:

General Age: 58

Safety Age: 52

We assume that 40% of future deferred vested members will continue to work for a reciprocal employer. For reciprocals, we assume 5.25% compensation increases per

annum.

Supplemental Disability Benefit: 25% of future General service connected (duty) disableds are assumed to be eligible

for this benefit; 75% of future General non-service connected (ordinary) disableds are

assumed to be eligible for this benefit.

Net Investment Return: 7.75%, net of investment and administration expenses.

Employee Contribution

Crediting Rate:

3.50% (Actual rate is based on six-month Treasury rate).

Consumer Price Index: Increase of 3.50% per year; retiree COLA increases due to CPI are limited to

maximum of 2.00% per year.



Changes in Actuarial Assumptions and Methods – Prior Assumptions (continued):

Salary Increases:

Annual Rate of Compensation Increase

Inflation: 3.50% per year; plus "across the board" salary increases of 0.50% per year; plus the following promotional and merit increases:

| Years of Service | General | Safety |
|------------------|---------|--------|
| Less than 1 | 10.00% | 10.00% |
| 1 | 7.00 | 7.00 |
| 2 | 4.25 | 4.25 |
| 3 | 3.75 | 3.75 |
| 4 | 3.25 | 3.50 |
| 5 | 2.75 | 3.00 |
| 6 | 2.00 | 2.50 |
| 7 | 1.50 | 2.00 |
| 8 | 1.25 | 1.50 |
| 9 | 1.00 | 1.25 |
| 10 | 0.95 | 1.20 |
| 11 | 0.90 | 1.15 |
| 12 | 0.85 | 1.10 |
| 13 | 0.80 | 1.05 |
| 14 | 0.75 | 1.00 |
| 15 | 0.75 | 0.95 |
| 16 | 0.75 | 0.90 |
| 17 | 0.75 | 0.85 |
| 18 | 0.75 | 0.80 |
| 19 | 0.75 | 0.75 |
| 20 and Over | 0.75 | 0.75 |

Increase in Internal Revenue Code

Section 401(a)(17) Compensation Limit: Increase of 3.5% per year from the valuation date.

Increase in Section 7522.10

Compensation Limit: Increase of 3.5% per year from the valuation date.



EXHIBIT VI

Summary of Plan Provisions

This exhibit summarizes the major provisions of the SBCERA included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions. Unless otherwise noted, all plan provisions shown below apply to both Tier 1 and Tier 2 members.

| Membership Eligibility: | All permanent employees of the County of San Bernardino or another participating employer working 20 hours per week or more must become a member of SBCERA subject to classification below: | |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| General | All employees not eligible for Safety. | |
| Safety | Employees in law enforcement and fire suppression. | |
| Tier 1 | All members with membership dates before January 1, 2013. | |
| Tier 2 | All members with membership dates on or after January 1, 2013. | |
| Final Compensation for Benefit Determination: | | |
| Tier 1 | Highest consecutive twelve months of compensation earnable (FAS1)(§31462.1). | |
| Tier 2 | Highest consecutive thirty-six months of pensionable compensation (FAS3)(§7522.32). | |
| Compensation Limit: | | |
| Tier 1 | For members with membership dates on or after July 1, 1996, Compensation Earnable is limited to Internal Revenue Code Section 401(a)(17). The limit for the Plan Year beginning July 1, 2014 is \$260,000. The limit is indexed for inflation on an annual basis. | |
| Tier 2 | Pensionable Compensation is limited to \$138,077 for 2014. The limit is indexed for inflation on an annual basis. | |



(§31672.3).

| Service Requirement: | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Eligibility: | |
| General Tier 1 | Age 50 with 10 years of service, or age 70 regardless of service, or after 30 years, regardless of age (§31672). |
| General Tier 2 | Age 52 with 5 years of service (§7522.20(a)) or age 70 regardless of service (§31672.3). |
| Safety Tier 1 | Age 50 with 10 years of service, or age 70 regardless of service, or after 20 years, regardless of age (§31663.25). |

Age 50 with 5 years of service (§7522.25(a)) or age 70 regardless of service

Benefit Formula:

Safety Tier 2

| General Tier 1 (§31676.15) | Retirement Age | Benefit Formula |
|------------------------------|----------------|---------------------------------|
| | 50 | 1.49% x FAS1 x Years of Service |
| | 55 | 2.00% x FAS1 x Years of Service |
| | 60 | 2.62% x FAS1 x Years of Service |
| | 62 | 2.82% x FAS1 x Years of Service |
| | 65 | 3.13% x FAS1 x Years of Service |
| General Tier 2 (§7522.20(a)) | 52 | 1.00% x FAS3 x Years of Service |
| | 55 | 1.30% x FAS3 x Years of Service |
| | 60 | 1.80% x FAS3 x Years of Service |
| | 62 | 2.00% x FAS3 x Years of Service |
| | 65 | 2.30% x FAS3 x Years of Service |
| | 67 | 2.50% x FAS3 x Years of Service |



| Benefit Formula: | | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| | Retirement Age | Benefit Formula |
| Safety Tier 1 (§31664.1) | 50 and later | 3.00% x FAS1 x Years of Service |
| Safety Tier 2 (§7522.25(d)) | 50 | 2.00% x FAS3 x Years of Service |
| | 55 | 2.50% x FAS3 x Years of Service |
| | 57 and later | 2.70% x FAS3 x Years of Service |
| Maximum Benefit: | | |
| Tier 1 | 100% of Final Compensation (§ | 31676.15), (§31664.1) |
| Tier 2 | There is no final compensation limit on the maximum retirement benefit. | |
| Ordinary Disability: | | |
| Eligibility | Five years of service (§31720). | |
| Benefit Formula | For members entering before January 1, 1981, 1.8% per year of service (in most cases a minimum of 33% of compensation) (§31727.3, §31727, and §31727.2). For members entering on or after January 1, 1981, 20% of final compensation, plus 2% of final average compensation for each year of service in excess of five years, up to a maximum of 40%. Members can instead receive 100% of service retirement benefit, it greater. | |
| Line-of-Duty Disability: | | |
| Eligibility | No age or service requirements (| §31720). |
| Benefit | 50% of Final Compensation or 1 (§31727.4). | 00% of service retirement benefit, if greater |



| upplemental Disability: | | |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eligibility | Must be a General member and incapable of gainful employment. | |
| Benefit | \$300 per month payable as long as the member is incapable of gainful employment. This benefit is not considered when calculating Cost-of-Living increases. | |
| eath Before Retirement: | | |
| Less than Five Years of Service | Refund of employee contributions with interest, plus one month's compensation for each year of service to a maximum of six months' compensation (§31781); 50% of Final Compensation payable to spouse (or child) if service-connected death (§31787) | |
| Five or More Years of Service | 60% of the greater of Service Retirement or Ordinary Disability retirement benefit payable to surviving eligible spouse (§31765.1, §31781.1), in lieu of above. | |
| | An additional lump sum payment of one-year of compensation is paid if Line-of-Duty death for Safety member (§31787.6). | |
| eath After Retirement: | | |
| Service Retirement or | | |
| Ordinary Disability Retirement | 60% of member's unmodified allowance continued to eligible spouse (§31760.1). | |
| Line-of-Duty Disability | 100% of member's allowance continued to eligible spouse (§31786). | |
| | An additional lump sum benefit of \$750 is payable to the member's beneficiary for all post-retirement deaths (§31789.1). | |
| | In addition, the Board of Retirement approved a discretionary \$250 post-retirement lump sum death benefit (i.e., burial allowance) pursuant to §31789.13. This benefit is funded from undesignated excess earnings and is subject at all times to the availabilit of funds in the Burial Allowance reserve. This benefit is not valued in the actuarial valuation. | |



| Withdrawal Benefits: | | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Less than Five Years of Service | Refund of accumulated employee contributions with interest (§31628) or entitled to earned benefits commencing anytime after eligible to retire (§31629.5) if eligible for benefits at a reciprocal system. | |
| Five or More Years of Service | If contributions left on deposit, entitled to earned benefits commencing at any time after eligible to retire (§31700). Service for eligibility includes service credited as ar employee of a reciprocal system. | |
| Post-retirement | | |
| Cost-of-Living Benefits: | Future changes based on the Consumer Price Index to a maximum of 2% per year, excess "banked." There is a one-time 7% increase at retirement for members hired before August 19, 1975. | |
| Employer Contributions: | Determined based on the actuarial methods described in Exhibit V. | |
| Member Contributions: | Please refer to page Appendix A for the specific rates. | |
| General Tier 1: | | |
| Basic | Entry age based rates that provide for an average annuity at age 55 equal to $^{1}/_{100}$ of FAS1 (§31621.6). | |
| Cost-of-Living | Entry age based rates that provide for one-half of future Cost-of-Living costs. | |
| Safety Tier 1: | | |
| Basic | Entry age based rates that provide for an average annuity at age 50 equal to $^{1}/_{100}$ of FAS1 (§31639.25). | |
| Cost-of-Living | Entry age based rates that provide for one-half of future Cost-of-Living costs. | |



| General Tier 2: | Non-entry age based rates that provide for 50% of total Normal Cost Rate. | | |
|--------------------|-------------------------------------------------------------------------------------------------------------------|--|--|
| Safety Tier 2: | Non-entry age based rates that provide for 50% of total Normal Cost Rate. | | |
| Other Information: | Tier 1 members with 30 or more years of service are exempt from paying member contributions (§31625.2, §31625.3). | | |
| Plan Changes: | There have been no changes in plan provisions since the previous valuation. | | |

NOTE:

The summary of major plan provisions is designed to outline principal plan benefits as interpreted for purposes of the actuarial valuations. If the Association should find the plan summary not in accordance with the actual provisions, the Association should alert the actuary to ensure the proper provisions are valued.



Appendix A

Member Contribution Rates (Refundable Basis)

General Tier 1 Members' Contribution Rates (Refundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| Entry Age | General Basic | General Total | Entry Age | General Basic | General Total |
|-----------|---------------|----------------------|-----------|----------------------|----------------------|
| 16 | 6.83% | 8.44% | 36 | 9.45% | 11.69% |
| 17 | 6.94% | 8.58% | 37 | 9.62% | 11.90% |
| 18 | 7.05% | 8.71% | 38 | 9.78% | 12.10% |
| 19 | 7.17% | 8.86% | 39 | 9.96% | 12.33% |
| 20 | 7.28% | 9.00% | 40 | 10.14% | 12.55% |
| 21 | 7.40% | 9.15% | 41 | 10.33% | 12.78% |
| 22 | 7.52% | 9.30% | 42 | 10.52% | 13.02% |
| 23 | 7.64% | 9.44% | 43 | 10.71% | 13.26% |
| 24 | 7.77% | 9.61% | 44 | 10.91% | 13.50% |
| 25 | 7.89% | 9.76% | 45 | 11.11% | 13.75% |
| 26 | 8.02% | 9.92% | 46 | 11.31% | 14.00% |
| 27 | 8.15% | 10.08% | 47 | 11.50% | 14.24% |
| 28 | 8.29% | 10.25% | 48 | 11.66% | 14.44% |
| 29 | 8.42% | 10.41% | 49 | 11.77% | 14.57% |
| 30 | 8.56% | 10.59% | 50 | 11.85% | 14.67% |
| 31 | 8.70% | 10.76% | 51 | 11.92% | 14.76% |
| 32 | 8.84% | 10.93% | 52 | 11.99% | 14.85% |
| 33 | 8.99% | 11.12% | 53 | 11.80% | 14.61% |
| 34 | 9.14% | 11.31% | 54 & Over | 11.48% | 14.21% |
| 35 | 9.29% | 11.49% | | | |

Interest: 7.50% COLA: 2.00%

Administrative Expense: 0.17% of payroll added to Basic rates.

COLA Loading Factor: 24.16% applied to Basic rates prior to adjustment for administrative expenses.

Mortality: RP-2000 Combined Healthy Mortality Table Projected to 2020 with Scale BB

weighted 30% Male and 70% Female.

Salary Increase: See Exhibit V.

Note: These rates are determined before any pickups by the employer.



Safety Tier 1 Members' Contribution Rates (Refundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| Entry Age | Safety Basic | Safety Total | Entry Age | Safety Basic | Safety Total |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 16 | 7.83% | 10.94% | 36 | 11.02% | 15.42% |
| 17 | 7.96% | 11.12% | 37 | 11.21% | 15.69% |
| 18 | 8.10% | 11.32% | 38 | 11.40% | 15.95% |
| 19 | 8.23% | 11.50% | 39 | 11.59% | 16.22% |
| 20 | 8.37% | 11.70% | 40 | 11.79% | 16.50% |
| 21 | 8.51% | 11.89% | 41 | 11.98% | 16.77% |
| 22 | 8.66% | 12.10% | 42 | 12.11% | 16.95% |
| 23 | 8.81% | 12.31% | 43 | 12.20% | 17.08% |
| 24 | 8.96% | 12.53% | 44 | 12.28% | 17.19% |
| 25 | 9.11% | 12.74% | 45 | 12.36% | 17.30% |
| 26 | 9.27% | 12.96% | 46 | 12.44% | 17.42% |
| 27 | 9.44% | 13.20% | 47 | 12.55% | 17.57% |
| 28 | 9.60% | 13.42% | 48 | 12.39% | 17.35% |
| 29 | 9.77% | 13.66% | 49 & Over | 12.05% | 16.87% |
| 30 | 9.95% | 13.92% | | | |
| 31 | 10.12% | 14.16% | | | |
| 32 | 10.30% | 14.41% | | | |
| 33 | 10.47% | 14.65% | | | |
| 34 | 10.65% | 14.90% | | | |
| 35 | 10.83% | 15.15% | | | |

Interest: 7.50% COLA: 2.00%

Administrative Expense: 0.17% of payroll added to Basic rates.

COLA Loading Factor: 40.56% applied to Basic rates prior to adjustment for administrative expenses.

Mortality: RP-2000 Combined Healthy Mortality Table Projected to 2020 with Scale BB, set back

two years for males and one year for females, weighted 85% Male and 15% Female.

Salary Increase: See Exhibit V.

Note: These rates are determined before any pickups by the employer.



Tier 2 Members' Contribution Rates (Refundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| | Basic | COLA | Total |
|-----------------------------------|--------|-------|--------|
| County General and Superior Court | 6.90% | 1.50% | 8.40% |
| County Safety | 12.15% | 3.07% | 15.22% |
| SCAQMD | 6.53% | 1.44% | 7.97% |
| Other General | 7.65% | 1.64% | 9.29% |
| Other Safety | 10.33% | 2.49% | 12.82% |

The Tier 2 member contribution rate is 50% of the Normal Cost rate. The Basic rates shown above also includes an administrative expense load of 0.17% of payroll.

Note: It is our understanding that in the determination of pension benefits under the CalPEPRA formulas for Tier 2 members, the maximum compensation that can be taken into account for 2014 is \$138,077. (reference: Section 7522.10). This amount should be adjusted for changes to the Consumer Price Index for All Urban Consumers after 2014. (reference: Section 7522.10(d))



Appendix B
Member Contribution Rates (Nonrefundable Basis)

General Tier 1 Members' Contribution Rates (Nonrefundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| Entry Age | General Basic | General Total | Entry Age | General Basic | General Total |
|-----------|----------------------|----------------------|-----------|----------------------|----------------------|
| 16 | 6.32% | 7.81% | 36 | 8.75% | 10.82% |
| 17 | 6.43% | 7.94% | 37 | 8.91% | 11.02% |
| 18 | 6.53% | 8.06% | 38 | 9.06% | 11.20% |
| 19 | 6.64% | 8.20% | 39 | 9.22% | 11.42% |
| 20 | 6.74% | 8.33% | 40 | 9.39% | 11.62% |
| 21 | 6.85% | 8.47% | 41 | 9.56% | 11.83% |
| 22 | 6.96% | 8.61% | 42 | 9.74% | 12.06% |
| 23 | 7.07% | 8.74% | 43 | 9.92% | 12.28% |
| 24 | 7.19% | 8.90% | 44 | 10.10% | 12.50% |
| 25 | 7.31% | 9.04% | 45 | 10.29% | 12.73% |
| 26 | 7.43% | 9.19% | 46 | 10.47% | 12.96% |
| 27 | 7.55% | 9.33% | 47 | 10.65% | 13.19% |
| 28 | 7.68% | 9.49% | 48 | 10.80% | 13.37% |
| 29 | 7.80% | 9.64% | 49 | 10.90% | 13.49% |
| 30 | 7.93% | 9.81% | 50 | 10.97% | 13.58% |
| 31 | 8.06% | 9.96% | 51 | 11.04% | 13.67% |
| 32 | 8.19% | 10.12% | 52 | 11.10% | 13.75% |
| 33 | 8.32% | 10.30% | 53 | 10.93% | 13.53% |
| 34 | 8.46% | 10.47% | 54 & Over | 10.63% | 13.16% |
| 35 | 8.60% | 10.64% | | | |

Interest: 7.50% COLA: 2.00%

Administrative Expense: 0.17% of payroll added to Basic rates.

COLA Loading Factor: 24.16% applied to Basic rates prior to adjustment for administrative expenses.

Refundability Factor: 1.08

Mortality: RP-2000 Combined Healthy Mortality Table Projected to 2020 with Scale BB

weighted 30% Male and 70% Female.

Salary Increase: See Exhibit V.

Note: These rates are determined before any pickups by the employer.



Safety Tier 1 Members' Contribution Rates (Nonrefundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| Entry Age | Safety Basic | Safety Total | Entry Age | Safety Basic | Safety Total |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 16 | 7.60% | 10.62% | 36 | 10.70% | 14.97% |
| 17 | 7.73% | 10.80% | 37 | 10.88% | 15.23% |
| 18 | 7.86% | 10.99% | 38 | 11.07% | 15.49% |
| 19 | 7.99% | 11.17% | 39 | 11.25% | 15.75% |
| 20 | 8.13% | 11.36% | 40 | 11.45% | 16.02% |
| 21 | 8.26% | 11.54% | 41 | 11.63% | 16.28% |
| 22 | 8.41% | 11.75% | 42 | 11.76% | 16.46% |
| 23 | 8.55% | 11.95% | 43 | 11.84% | 16.58% |
| 24 | 8.70% | 12.17% | 44 | 11.92% | 16.69% |
| 25 | 8.84% | 12.37% | 45 | 12.00% | 16.80% |
| 26 | 9.00% | 12.58% | 46 | 12.08% | 16.91% |
| 27 | 9.17% | 12.82% | 47 | 12.18% | 17.06% |
| 28 | 9.32% | 13.03% | 48 | 12.03% | 16.84% |
| 29 | 9.49% | 13.26% | 49 & Over | 11.70% | 16.38% |
| 30 | 9.66% | 13.51% | | | |
| 31 | 9.83% | 13.75% | | | |
| 32 | 10.00% | 13.99% | | | |
| 33 | 10.17% | 14.22% | | | |
| 34 | 10.34% | 14.47% | | | |
| 35 | 10.51% | 14.71% | | | |

Interest: 7.50% COLA: 2.00%

Administrative Expense: 0.17% of payroll added to Basic rates.

COLA Loading Factor: 40.56% applied to Basic rates prior to adjustment for administrative expenses.

Refundability Factor: 1.03

Mortality: RP-2000 Combined Healthy Mortality Table Projected to 2020 with Scale BB, set back

two years for males and one year for females, weighted 85% Male and 15% Female.

Salary Increase: See Exhibit V.

Note: These rates are determined before any pickups by the employer.



Tier 2 Members' Contribution Rates (Nonrefundable Basis) from the June 30, 2014 Actuarial Valuation Expressed as a Percentage of Monthly Compensation

| | Basic | COLA | Total |
|-----------------------------------|--------|-------|--------|
| County General and Superior Court | 6.33% | 1.37% | 7.70% |
| County Safety | 11.74% | 2.96% | 14.70% |
| SCAQMD | 5.98% | 1.32% | 7.30% |
| Other General | 7.01% | 1.49% | 8.50% |
| Other Safety | 9.98% | 2.40% | 12.38% |

Note: It is our understanding that in the determination of pension benefits under the CalPEPRA formulas for Tier 2 members, the maximum compensation that can be taken into account for 2014 is \$138,077. (reference: Section 7522.10). This amount should be adjusted for changes to the Consumer Price Index for All Urban Consumers after 2014. (reference: Section 7522.10(d))





San Bernardino County Employees' Retirement Association Survivor Benefit Valuation

Review of Contribution Rate and Funded Status as of June 30, 2014

This report has been prepared at the request of the Board of Retirement to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Retirement and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.

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November 3, 2014

Board of Retirement San Bernardino County Employees' Retirement Association 348 West Hospitality Lane, 3rd Floor San Bernardino, California 92415-0014

Dear Members of the Board:

We are pleased to submit our Survivor Benefit Valuation as of June 30, 2014. It summarizes the actuarial data used in the valuation and establishes the funding requirements for fiscal 2015-2016.

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

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in plan provisions or applicable law.

The actuarial calculations were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary. We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the Plan.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincerely,

Segal Consulting, a Member of the Segal Group

By:

Paul Angelo, FSA, EA, MAAA, FCA Senior Vice President and Actuary John Monroe, ASA, EA, MAAA Vice President and Actuary

AW/gxk

SECTION 1

VALUATION SUMMARY

Contribution Recommendations and Funded Statusi

SECTION 2

REVIEW OF ACTUARIAL ASSUMPTIONS

| B. | Review of Experience and |
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SECTION 4

SUPPORTING EXHIBITS

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| Survivor Benefit | 5 |
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EXHIBIT II Actuarial Assumptions/Methods for SBCERA Survivor Benefit 6

CONTRIBUTION RECOMMENDATIONS AND FUNDED STATUS

- > The results of this valuation reflect changes in the actuarial assumptions as recommended in our Actuarial Experience Study and adopted by the Board for the June 30, 2014 valuation.
- > The following table summarizes the biweekly pay period contribution rate recommendations for the employers and the members:

| | General Employers | Estimated Annual Amount | General Members | Estimated Annual Amount | |
|-------------------------------|----------------------|-------------------------|--------------------|-------------------------|--|
| Current Contribution Rate | \$1.85 | \$829,000 | \$1.85 | \$829,000 | |
| Recommended Contribution Rate | \$1.72 | \$774,000 | \$1.72 | \$774,000 | |

- > The decrease in the contribution rates is primarily due to the changes in actuarial assumptions.
- > We have continued to exclude any potential liabilities associated with current or future terminated vested members in the valuation. This change was made after discussions with SBCERA and is consistent with how these benefits have historically been administered.
- > The Board has elected to include the Survivor Benefit Valuation in the regular valuation process. Therefore, the Actuarial Valuation and Review will include the Survivor Benefit liabilities and normal cost and the valuation assets will include the Survivor Benefit Reserve. We will continue to issue this separate report for the Survivor Benefit as the contribution rate structure is different and there are special assumptions used only for this valuation.
- > The following table compares the reserves and liabilities for the Survivor Benefit as of June 30, 2014:

| 1. | June 30, 2014 Reserves | \$53,391,000 |
|----|----------------------------------------------|---------------|
| 2. | June 30, 2014 Actuarial Accrued Liabilities: | |
| | Current Recipients | 24,791,000 |
| | Future Recipients | 8,967,000 |
| | Total | 33,758,000 |
| 3. | Liabilities minus Reserves (2) – (1) | -\$19,633,000 |
| 4. | Funded Ratio $(1) \div (2)$ | 158.2% |



SECTION 2: Review of Actuarial Assumptions for SBCERA Survivor Benefit Valuation

A. INTRODUCTION

The Survivor Benefit program was adopted by the County (in January 1976) and South Coast Air Quality District (in February 1977) to replace similar benefits once provided by Social Security. These benefits are provided only to eligible beneficiaries of members who are General active employees. The cost of the program is equally shared between the employers and the active employee members.

The contribution rates are calculated to provide for the ongoing cost of benefits, plus any amounts necessary to recognize any shortfall of reserves relative to the actuarial accrued liabilities.

A summary of the Survivor Benefit provisions is displayed in Exhibit I.

1

SECTION 2: Review of Actuarial Assumptions for SBCERA Survivor Benefit Valuation

B. REVIEW OF EXPERIENCE AND RECOMMENDATIONS

Exhibit II provides a summary of the actuarial assumptions used in this actuarial valuation. The Board adopted these assumptions as part of the 2014 Actuarial Experience Study and Review of Economic Assumptions. Additional assumptions are necessary for this valuation because the benefit amount varies depending upon the number and type of survivors receiving it.

Assumptions regarding the number and type of beneficiaries for future deaths were derived from 2013 U.S. Census data. Separate assumptions were developed for married versus nonmarried members. Those assumptions can be found in Exhibit II.

The following table provides a summary of the number and type of beneficiaries as of June 30, 2014.

CHART 1
Table of Coverage

| SB | CERA Survivor Benefit Recipients as of June 30, 2014 | Death Before 4/2/1994 | Death 4/2/1994 or Later | |
|----|----------------------------------------------------------------------------|-----------------------|-------------------------|--|
| 1. | Surviving spouse caring for one child OR two children only | 0 | 22 | |
| 2. | Surviving spouse caring for two or more children OR three or more children | 0 | 12 | |
| 3. | One child only OR each of two dependent parents age 62 | 0 | 19 | |
| 4. | Widow or widower age 62 (no child) or in deferred status | 75 | 190 | |
| 5. | Widow or widower age 60 (no child) | 0 | 68 | |
| 6. | Total | 75 | 311 | |
| SB | CERA Covered Members as of June 30, 2014 | As of June 30, 2014 | | |
| 1. | Active members | 17,314 | | |



SECTION 3: Valuation Results for SBCERA Survivor Benefit Valuation

A. INTRODUCTION

The funding of the Survivor Benefit comes from the following sources:

- 1. The Survivor Benefit Reserve, which equals \$53,391,000 as of June 30, 2014; and
- 2. Equal contributions from employers and members.

The following table provides the funded status of the Survivor Benefit as of June 30, 2014:

| 1. | June 30, 2014 Reserves | \$53,391,000 |
|----|----------------------------------------------|---------------|
| 2. | June 30, 2014 Actuarial Accrued Liabilities: | |
| | Current Recipients | 24,791,000 |
| | Future Recipients | 8,967,000 |
| | Total | 33,758,000 |
| 3. | Liabilities minus Reserves | -\$19,633,000 |
| 4. | Funded Ratio (1./2.) | 158.2% |

The contribution requirements are determined based on the Entry Age Actuarial Cost Method. Based on advice received from SBCERA's legal counsel, the Excess of Assets over the Actuarial Accrued Liability (Item 3 in the above table) can no longer be used to reduce the contribution rates. This is because CalPEPRA requires contributions be at least equal to the Normal Cost unless the provisions of Section 7522.52 are met. It is our understanding that those provisions are currently not met and it is not anticipated they will be met in the future. The employer and member contribution rates are derived on the following page.



SECTION 3: Valuation Results for SBCERA Survivor Benefit Valuation

B. CONTRIBUTION REQUIREMENTS

| 1. | Biweekly Entry Age Normal Cost per Active Member | \$3.44 |
|----|--------------------------------------------------|-----------|
| 2. | Employer Portion (50% of (1)) | \$1.72 |
| 3. | Member Portion (50% of (1)) | \$1.72 |
| 4. | Estimated Annual Employer Contribution | \$774,000 |
| 5. | Estimated Annual Member Contribution | \$774,000 |

Note: Contributions include an adjustment to account for contributions being made throughout the year.

SECTION 4: Supporting Exhibits for SBCERA Survivor Benefit Valuation

EXHIBIT I

Plan Summary for SBCERA Survivor Benefit

Covered Members: This plan provides a survivor benefit for active general members

who die prior to retirement or disability and have been a member continuously for not less than 18 months immediately prior to death. All General active employees at SBCERA are eligible for

this benefit.

Member Contribution Rate: 50% of benefit cost, charged to all active General members

Employer Contribution Rate: 50% of benefit cost

Table of Benefits for Members with Death Date on or After 4/1/1994

| Member's Survivor(s) | Monthly Allowance |
|--------------------------------------------------|--------------------------|
| Surviving spouse caring for one child | \$1,390 |
| Surviving spouse caring for two or more children | \$1,622 |
| One child only | \$ 695 |
| Two children only (divided between children) | \$1,390 |
| Three children only (divided between children) | \$1,622 |
| Widow or widower age 60 (no children) | \$ 663 |
| Widow or widower age 62 or older (no children) | \$ 768 |
| Each of two dependent parents age 62 or older | \$ 695 |
| One dependent parent only, age 62 or older | \$ 795 |
| | |
| One-time burial allowance | \$ 255 |



SECTION 4: Support Exhibits for SBCERA Survivor Benefit Valuation

EXHIBIT II

Actuarial Assumptions/Methods for SBCERA Survivor Benefit

Actuarial Assumptions

The actuarial assumptions used in this valuation are:

- > Those used in the SBCERA June 30, 2014 actuarial valuation report; and
- > The following assumptions derived from 2013 U.S. Census data.

| Member's | _ | | | | | | | Children's Age | |
|--------------|--------------------|-------------------------|--------------------------|-------------------------|---------------------|----------------------|---------------------|----------------|---------|
| Age at Death | Percent Married | Not Married No Child | Not Married One Child | Not Married 2+ Child | Married No Child | Married One Child | Married 2+ Child | Child 1 | Child 2 |
| Under 25 | 18% | 65% | 11% | 6% | 8% | 6% | 4% | 3 | 1 |
| 25-34 | 49% | 34% | 7% | 10% | 15% | 12% | 22% | 6 | 4 |
| 35-44 | 65% | 21% | 6% | 8% | 12% | 15% | 38% | 10 | 8 |
| 45-54 | 64% | 30% | 4% | 2% | 34% | 15% | 15% | 14 | 12 |
| 55-59 | 61% | 38% | 1% | 0% | 55% | 4% | 2% | 18 | 16 |
| 60-64 | 61% | 38% | 1% | 0% | 55% | 4% | 2% | 21 | 19 |
| 65-74 | 61% | 40% | 0% | 0% | 59% | 1% | 0% | N/A | N/A |
| 75+ | 40% | 60% | 0% | 0% | 40% | 0% | 0% | N/A | N/A |
| Total | 56% | 26% | 4% | 4% | 33% | 9% | 14% | N/A | N/A |

Child payments are assumed to end when the child reaches age 22.

Widows or widowers are assumed to start payment at age 62 (or later if they are caring for an eligible child).

Actuarial Methods

Actuarial Cost Method: Entry Age Actuarial Cost Method. Entry Age is the age at the member's hire date.

Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are allocated by service, with Normal Cost determined as though the current benefit

accrual rate had always been in effect, (i.e., "replacement life").

Actuarial Value of Assets: Survivor Benefit Reserve value as of valuation date.



SECTION 4: Support Exhibits for SBCERA Survivor Benefit Valuation

Amortization Policy:

If an overfunding exists (i.e., the total of all UAAL becomes negative so that there is a surplus), such surplus and any subsequent surpluses will be amortized over an "open" amortization period of 30 years. However, since the provisions of Section 7522.52 have not been met, the surplus has not been amortized. Any prior UAAL amortization layers will be considered fully amortized, and any subsequent UAAL will be amortized over 20 years as the first of a new series of amortization layers. Other parameters of the amortization policy follow those established for SBCERA's other retirement benefits, with the exception that a level dollar methodology will be used instead of level percent of payroll.

Changes in Actuarial Assumptions and Methods:

Based on the actuarial experience study, the following actuarial assumptions were changed. Previously these assumptions were as follows:

- > Those used in the SBCERA June 30, 2013 actuarial valuation report; and
- > The following assumptions derived from 1998 U.S. Census data.

| Member's | | | | | | | | Childr | en's Age |
|--------------|--------------------|-------------------------|--------------------------|-------------------------|---------------------|----------------------|---------------------|---------|----------|
| Age at Death | Percent Married | Not Married No Child | Not Married One Child | Not Married 2+ Child | Married No Child | Married One Child | Married 2+ Child | Child 1 | Child 2 |
| Under 25 | 33% | 61% | 3% | 3% | 25% | 3% | 5% | 3 | 1 |
| 25-34 | 67% | 27% | 3% | 3% | 36% | 12% | 19% | 6 | 4 |
| 35-44 | 75% | 19% | 3% | 3% | 36% | 15% | 24% | 9 | 7 |
| 45-54 | 76% | 18% | 3% | 3% | 36% | 15% | 25% | 12 | 10 |
| 55-59 | 78% | 18% | 2% | 2% | 36% | 16% | 26% | 16 | 14 |
| 60-64 | 78% | 18% | 2% | 2% | 36% | 16% | 26% | 20 | 18 |
| 65-74 | 67% | 27% | 3% | 3% | 36% | 12% | 19% | N/A | N/A |
| 75+ | 43% | 51% | 3% | 3% | 30% | 5% | 8% | N/A | N/A |
| Total | 68% | 26% | 3% | 3% | 36% | 12% | 20% | N/A | N/A |

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November 3, 2014

Board of Retirement San Bernardino County Employees' Retirement Association 348 West Hospitality Lane, 3rd Floor San Bernardino, CA 92415-0014

Re: South Coast Air Quality Management District (SCAQMD) Pick-up Contributions for Tier 1 Members

Dear Members of the Board:

As requested, we have determined the SCAQMD Tier 1 member and employer contribution rates after taking into account the employer contribution pick-up arrangement for two groups of employees: (1) Non-Office, Clerical & Maintenance employees (Non-OCM), and (2) Office, Clerical & Maintenance employees (OCM).

It is our understanding that Tier 1 members with more than 30 years of service are exempt from paying member contributions. As directed by SBCERA, we have excluded these members from these pick-up calculations.

To determine the employer rate we take the average contribution rate pick-up, reduce it for nonrefundability (since the employer is paying it and therefore it becomes nonrefundable), and add that rate to the employer contribution rate in the June 30, 2014 valuation. We have produced three employer rates, one for the Non-OCM pre-7/1/1979 hires (including some select Non-OCM post-7/1/1979 hires), one for the Non-OCM post-7/1/1979 hires, and one rate for the OCM post-7/1/1979 hires. We have not provided employer rates for OCM hires before 7/1/1979 as all of those employers have at least 30 years of service, and so no longer make member contributions. The General Tier 1 nonrefundability factor changed from last year's value of 1.10 to a new value of 1.08 due to the new assumptions reflected in the June 30, 2014 valuation.

In addition to the rates described in this letter, it is our understanding that the SCAQMD has agreed with certain employee groups that new employees hired on or after July 1, 2012 will pay the full employee contribution without any employer pick-up. For these employee groups, the rates described in this letter will not apply, as the employer and employee rates described in the actuarial valuation will be applicable without modification.

NON-OCM EMPLOYEES

We understand that the SCAQMD will pick-up contributions for Non-OCM pre-7/1/1979 hires (and some select Non-OCM post-7/1/1979 hires) up to a rate of 11.34% and contributions for post-7/1/1979 hires up to a rate of 6.49%. Since all Non-OCM post-7/1/1979 members pay at

Board of Retirement San Bernardino County Employees' Retirement Assocation November 3, 2014 Page 2

least a 6.49% contribution rate, all Non-OCM post-7/1/1979 members contribution rates will be reduced by 6.49% (note that this excludes the Non-OCM post-7/1/1979 members that are included in the Non-OCM pre-7/1/1979 group). For the Non-OCM pre-7/1/1979 members (and post-7/1/1979 members included in this group) all member contribution rates will be reduced by up to 11.34%. Note that an additional 3.25% member contribution rate is added to the resulting member contribution rate determined above after pick-ups.

For Non-OCM post-7/1/1979 hires the employer contribution rate is 33.19% (30.19% + ((6.49% - 3.25%) / 1.08)). Please note that 30.19% is the SCAQMD Tier 1 contribution rate in the June 30, 2014 valuation and the 1.08 factor is the General Tier 1 member nonrefundability factor. For Non-OCM pre-7/1/1979 hires (including those select Non-OCM post-7/1/1979 hires) the employer contribution rate is 37.30% (30.19% + ((10.93% - 3.25%) / 1.08)). The factors are the same as above except we had to derive an average member contribution rate to be picked up for the Non-OCM pre-7/1/1979 hires (including those select post-7/1/1979 hires). That average rate was 10.93%.

OCM EMPLOYEES

We understand that the SCAQMD will pick-up contributions for OCM pre-7/1/1979 hires up to a rate of 11.34% and contributions for OCM post-7/1/1979 hires up to a rate of 6.49%. Since all OCM post-7/1/1979 members pay at least a 6.49% contribution rate, all OCM post-7/1/1979 members contribution rates will be reduced by 6.49%. For the OCM pre-7/1/1979 members, no pick-up calculation is necessary since all of these members have more than 30 years of service. Note that there is no additional 3.25% member contribution for OCM employees.

For OCM post-7/1/1979 hires the employer contribution rate is 36.20% (30.19% + (6.49% / 1.08)). The factors are the same as above except that the additional 3.25% member contribution rate was excluded.

SUMMARY

The following table* summarizes the employer contribution rates for the SCAQMD Tier 1 Members:

| | SCAQMD Tier 1 | | | | |
|------------------------------|------------------|------------------|-------------------|--|--|
| | Non- | OCM | | | |
| · | Post 7/1/1979 | Pre- 7/1/1979 | Post- 7/1/1979 | | |
| Employer Contribution | 30.19% | 30.19% | 30.19% | | |
| Employer Pick-Up | 3.00% | 7.11% | 6.01% | | |
| Net Employer Contribution | 33.19% | 37.30% | 36.20% | | |

^{*} Not applicable to those employee groups that have agreed to require employees hired on or after July 1, 2012 to pay the full employee contribution.

Board of Retirement San Bernardino County Employees' Retirement Assocation November 3, 2014 Page 3

We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Respectfully submitted,

Paul Angelo, FSA, MAAA, FCA, EA Senior Vice President and Actuary John Monroe, ASA, MAAA, EA Vice President and Actuary

AW/gxk



San Bernardino County Employees' Retirement Association

Governmental Accounting Standards (GAS) 67 Actuarial Valuation as of June 30, 2014

This report has been prepared at the request of the Board of Retirement to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Retirement and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.





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November 3, 2014

Board of Retirement San Bernardino County Employees' Retirement Association 348 West Hospitality Lane, Third Floor San Bernardino, CA 92415-0014

Dear Board Members:

We are pleased to submit this Governmental Accounting Standards (GAS) 67 Actuarial Valuation as of June 30, 2014. It contains various information that will need to be disclosed in order to comply with GAS 67.

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

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law.

The actuarial calculations were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary. We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and expectations for the Association.

We look forward to reviewing this report with you and to answering any questions.

Sincerely,

Segal Consulting, a Member of The Segal Group, Inc.

Bv:

Paul Angelo, FSA, EA, MAAA, FCA Senior Vice President and Actuary John Monroe, ASA, EA, MAAA

Vice President and Actuary

SECTION 1

| | | • | | | - | _ | | _ | | - | - | - | - | • | | | 4 |
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GASB 67 INFORMATION

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Purpose

This report has been prepared by Segal Consulting to present certain disclosure information required by Statement No. 67 of the Governmental Accounting Standards Board as of June 30, 2014. This valuation is based on:

- > The benefit provisions of the Retirement Association, as administered by the Board of Retirement;
- > The characteristics of covered active members, inactive vested members, and retired members and beneficiaries as of June 30, 2014, provided by the Retirement Association;
- > The assets of the Plan as of June 30, 2014, provided by the Retirement Association;
- > Economic assumptions regarding future salary increases and investment earnings; and
- > Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

Significant Issues in Valuation Year

The following key findings were the result of this actuarial valuation:

- > The Governmental Accounting Standards Board (GASB) approved two new Statements affecting the reporting of pension liabilities for accounting purposes. Statement 67 replaces Statement 25 and is for plan reporting. Statement 68 replaces Statement 27 and is for employer reporting. Statement 67 is effective with the year ending June 30, 2014 for Plan reporting and Statement 68 is effective for fiscal years beginning after June 15, 2014 (2014/15) for employer reporting. The information contained in this valuation is intended to be used (along with other information) in order to comply with Statement 67.
- > It is important to note that the new GASB rules only redefine pension liability and expense for financial reporting purposes, and do not apply to contribution amounts for pension funding purposes. Employers and plans can still develop and adopt funding policies under current practices.
- > When measuring pension liability GASB uses the same actuarial cost method (Entry Age method) and the same type of discount rate (expected return on assets) as SBCERA uses for funding. This means that the Total Pension Liability (TPL) measure for financial reporting shown in this report is determined on the same basis as SBCERA's Actuarial Accrued Liability (AAL) measure for funding. We note that the same is generally true for the Normal Cost component of the annual plan cost for funding and financial reporting.



SECTION 1: Valuation Summary for the San Bernardino County Employees' Retirement Association

- > The Total Pension Liability (TPL) and the Plan's Fiduciary Net Position include liabilities and assets held for Survivor Benefit and Burial Allowance reserves. In the case of the Burial Allowance, the TPL only includes a liability up to the amount in the Burial Allowance Reserve. This is because we understand that the Burial Allowance is a nonvested benefit and once the reserve is depleted no further benefits would need to be paid.
- > The Net Pension Liability (NPL) is equal to the difference between the TPL and the Plan's Fiduciary Net Position. The Plan's Fiduciary Net Position is equal to the market value of assets and therefore, the NPL measure is very similar to an Unfunded Actuarial Accrued Liability (UAAL) calculated on a market value basis. The NPL decreased from \$1.98 billion as of June 30, 2013 to \$1.70 billion as of June 30, 2014 due to the 12.20% return on the market value of assets during 2013/2014 that exceeded the assumed return of 7.75%. Changes in these values during the last fiscal year ending June 30, 2014 can be found in Exhibit 3. In particular, the June 30, 2014 NPL was measured using the new actuarial assumptions and the NPL would have been lower by about \$329 million if measured using the old assumptions.
- > The NPLs measured as of June 30, 2014 and 2013 have been determined from the actuarial valuations as of June 30, 2014 and June 30, 2013, respectively.
- > The discount rates used to determine the TPL and NPL as of June 30, 2014 and 2013 were 7.50% and 7.75%, respectively, following the same assumptions used by the Association in the funding valuations as of the same dates. Details on the derivation of the discount rates can be found in Exhibits 5 and 6 of Section 2. Various other information that is required to be disclosed can be found throughout Exhibits 1 through 4 in Section 2.

SECTION 1: Valuation Summary for the San Bernardino County Employees' Retirement Association

Summary of Key Valuation Results

| | 2014 | 2013 |
|-----------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Disclosure elements for fiscal year ending June 30: | | |
| Service cost ⁽¹⁾ | \$271,473,405 | \$273,020,175 |
| Total pension liability | 9,694,825,407 | 9,088,635,907 |
| Plan fiduciary net position | 7,995,070,539 | 7,104,553,860 |
| Net pension liability | 1,699,754,868 | 1,984,082,047 |
| Schedule of contributions for fiscal year ending June 30: | | |
| Actuarially determined contributions | \$278,352,174 | \$248,840,990 |
| Actual contributions | 278,352,174 | 248,840,990 |
| Contribution deficiency (excess) | 0 | 0 |
| Demographic data for plan year ending June 30: | | |
| Number of retired members and beneficiaries | 10,618 | 10,173 |
| Number of vested terminated members ⁽²⁾ | 4,356 | 3,921 |
| Number of active members | 19,497 | 19,401 |
| Key assumptions as of June 30: | | |
| Investment rate of return | 7.50% | 7.75% |
| Inflation rate | 3.25% | 3.50% |
| Projected salary increases ⁽³⁾ | General: 4.60% to 13.75% and Safety: 4.55% to 13.75% | General: 4.75% to 14.00% and Safety: 4.75% to 14.00% |

⁽¹⁾ Please note that service cost is always based on the previous year's assumptions, meaning both values are based on those assumptions shown as of June 30, 2013.



⁽²⁾ Includes terminated members due a refund of member contributions plus accumulated interest.

⁽³⁾ Includes inflation at 3.25% (3.50% for the June 30, 2013 valuation) plus real across-the-board salary increase of 0.50% plus merit and promotional increases.

EXHIBIT 1

General Information – "Financial Statements", Note Disclosures and Required Supplementary Information for a Cost-Sharing Pension Plan

Plan Description

Plan administration. The San Bernardino County Employees' Retirement Association (SBCERA) was established by the County of San Bernardino in 1945. SBCERA is governed by the County Employees' Retirement Law of 1937 (California Government Code Section 31450 et. seq), the California Public Employees' Pension Reform Act of 2013 (CalPEPRA), and the regulations, procedures, and policies adopted by SBCERA's Board of Retirement. SBCERA is a cost-sharing multiple employer defined benefit public employee Retirement Association whose main function is to provide service retirement, disability, death and survivor benefits to the General and Safety members employed by the County of San Bernardino. SBCERA also provides retirement benefits to the employee members for 16 other employers which are members of SBCERA.

The management of SBCERA is vested with the SBCERA Board of Retirement. The Board consists of eleven trustees. Of the eleven members, two are alternates. Four trustees are appointed by the San Bernardino County Board of Supervisors; two General member trustees are elected by the General members; two Safety member trustees (including one alternate) are elected by the Retired members; and the San Bernardino County Treasurer serves as an ex-officio member. Board members serve three-year terms, with the exception of the County Treasurer, who serves during his tenure in office.

Plan membership. At June 30, 2014, pension plan membership consisted of the following:

| | | Tier 1 | | | Tier 2 | | |
|-------------------------------------------------------------------------|---------|--------|-----------|---------|--------|-----------|--------|
| | General | Safety | Sub-Total | General | Safety | Sub-Total | Total |
| Active employees - vested | 12,533 | 1,826 | 14,359 | 14 | 0 | 14 | 14,373 |
| Active employees - nonvested | 2,727 | 206 | 2,933 | 2,040 | 151 | 2,191 | 5,124 |
| Inactive plan members or beneficiaries currently receiving benefits | | | | | | | |
| Retirees currently receiving benefits | 7,745 | 1,410 | 9,155 | 0 | 0 | 0 | 9,155 |
| Beneficiaries and dependents currently receiving benefits | 1,181 | 282 | 1,463 | 0 | 0 | 0 | 1,463 |
| Inactive plan members entitled to but not yet receiving benefits | | | | | | | |
| Inactive members eligible for, but not yet receiving benefits | 2,002 | 127 | 2,129 | 1 | 0 | 1 | 2,130 |
| Inactive members eligible for refund value of account only ¹ | 1,988 | 62 | 2,050 | 176 | 0 | 176 | 2,226 |
| Total | 28,176 | 3,913 | 32,089 | 2,231 | 151 | 2,382 | 34,471 |
| | | | | | | | |

¹ Inactive members with less than 5 years of service are entitled to withdraw their refundable contributions made, together with accumulated interest only.

Benefits provided. SBCERA provides service retirement, disability, death and survivor benefits to eligible employees. Generally, any employee of the County of San Bernardino or participating employers who is appointed to a regular position whose service is greater than fifty percent of the full standard of hours required by a participating SBCERA employer (e.g. 20 hours per week or more) must become a member of SBCERA effective on the first day of employment. There are separate retirement benefits for General and Safety member employees. Safety membership is extended to those involved in active law enforcement and fire suppression. All other members are classified as General Members.

There are currently two tiers applicable to both General and Safety members. Members with membership dates before January 1, 2013 are included in General Tier 1 or Safety Tier 1. Any new member who becomes a member on or after January 1, 2013 is designated as General Tier 2 or Safety Tier 2 and is subject to the provisions of California Public Employees' Pension Reform Act of 2013 (CalPEPRA), California Government Code 7522 et seq. and Assembly Bill (AB) 197.

General members prior to January 1, 2013, are eligible to retire once they attain the age of 70 regardless of service or at age 50 and have acquired 10 or more years of retirement service credit. A member with 30 years of service is eligible to retire regardless of age. General members who are first hired on or after January 1, 2013, are eligible to retire once they attain the age of 70 regardless of service or at age 52 and have acquired five or more years of retirement service credit.

Safety members prior to January 1, 2013, are eligible to retire once they attain the age of 70 regardless of service or at age 50 and have acquired 10 or more years of retirement service credit. A member with 20 years of service is eligible to retire regardless of age. Safety members who are first hired on or after January 1, 2013, are eligible to retire once they attain the age of 70 regardless of service or at age 50, and have acquired five or more years of retirement service credit.

The retirement benefit the member will receive is based upon age at retirement, final average compensation, years of retirement service credit and retirement plan and tier.

General Tier 1 benefit is calculated pursuant to the provisions of California Government Code of Section 31676.15. The monthly allowance is equal to 1/50th of final compensation times years of accrued retirement service credit times age factor from Section 31676.15. General Tier 2 benefit is calculated pursuant to the provisions found in California Government Code Section 7522.20(a). The monthly allowance is equal to the final compensation multiplied by years of accrued retirement credit multiplied by the age factor from Section 7522.20(a).

Safety Tier 1 benefit is calculated pursuant to the provisions of California Government Code Section 31664.1. The monthly allowance is equal to 3% of final compensation times years of accrued retirement service credit times age factor from Section 31664.1. Safety Tier 2 benefit is calculated pursuant to the provisions found in California Government Code Section 7522.25(d). The monthly allowance is equal to the final compensation multiplied by years of accrued retirement credit multiplied by the age factor from Section 7522.25(d).

For Tier 1 members, the maximum monthly retirement allowance is 100% of final compensation. There is no final compensation limit on the maximum retirement benefit for Tier 2 members.

The maximum amount of compensation earnable that can be taken into account for 2014 for Tier 1 members with membership dates on or after July 1, 1996 is \$260,000. The maximum amount of pensionable compensation for Tier 2 members that can be taken into account for 2014 is equal to \$138,077. These limits are adjusted on an annual basis. Members are exempt from paying member contributions and employers are exempt from paying employer contributions on compensation in excess of the annual cap.

Final average compensation consists of the highest 12 consecutive months for Tier 1 members and the highest 36 consecutive months for Tier 2 members

The member may elect an unmodified retirement allowance, or choose an optional retirement allowance. The unmodified retirement allowance provides the highest monthly benefit and a 60% continuance to an eligible surviving spouse or domestic partner. An eligible surviving spouse or domestic partner is one married to or registered with the member one year prior to the effective retirement date or at least two years prior to the date of death and has attained age 55 on or prior to the date of death. There are four optional retirement allowances the member may choose. Each of the optional retirement allowances requires a reduction in the unmodified retirement allowance in order to allow the member the ability to provide certain benefits to a surviving spouse, domestic partner, or named beneficiary having an insurable interest in the life of the member.

SBCERA provides an annual cost-of-living benefit to all retirees. The cost-of-living adjustment, based upon the Consumer Price Index for All Urban Consumers for the Los Angeles-Riverside-Orange County Area, is capped at 2.0%.

The County of San Bernardino and participating employers contribute to the retirement plan based upon actuarially determined contribution rates adopted by the Board of Retirement. Employer contribution rates are adopted annually based upon recommendations received from SBCERA's actuary after the completion of the annual actuarial valuation. The average employer contribution rate as of June 30, 2014 for 2013-2014 (based on the June 30, 2012 valuation) was 23.08% of compensation.

All members are required to make contributions to SBCERA regardless of the retirement plan or tier in which they are included. The average member contribution rate as of June 30, 2014 for 2013-2014 (based on the June 30, 2012 valuation) was 10.58% of compensation.

| EXHIBIT 2 |
|------------------------------|
| Net Pension Liability |

| The components of the net pension liability are as follows: | | |
|----------------------------------------------------------------------------|-----------------------|-----------------------|
| | June 30, 2014 | June 30, 2013 |
| Total pension liability | \$9,694,825,407 | \$9,088,635,907 |
| Plan fiduciary net position | <u>-7,995,070,539</u> | <u>-7,104,553,860</u> |
| Net pension liability | \$1,699,754,868 | \$1,984,082,047 |
| Plan fiduciary net position as a percentage of the total pension liability | 82.47% | 78.17% |

The net pension liability was measured as of June 30, 2014 and 2013 and determined based upon the Plan fiduciary net position (plan assets) and total pension liability from actuarial valuations as of June 30, 2014 and 2013, respectively.

Actuarial assumptions. The total pension liabilities as of June 30, 2014 and June 30, 2013 were determined by actuarial valuations as of June 30, 2014 and June 30, 2013, respectively. The actuarial assumptions used in this June 30, 2014 valuation were based on the results of an experience study for the period from July 1, 2010 through June 30, 2013. They are the same as the assumptions used in the June 30, 2014 funding actuarial valuation for SBCERA. The assumptions are outlined on page 11 of this report. In particular, the following actuarial assumptions were applied to all periods included in the measurement:

| Inflation | 3.25% |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Salary increases | General: 4.60% to 13.75% and Safety: 4.55% to 13.75%, varying by service, including inflation |
| Investment rate of return Administrative expenses | 7.50%, net of pension plan investment expense, including inflation 0.60% of payroll allocated to both the employer and member based on the components of the total contribution rate (before expenses) for the employer and member. |
| Mortality | Mortality rates are based on the RP-2000 Combined Healthy mortality table projected 20 years using Projection Scale BB. For healthy General members, no adjustments are made. For healthy Safety members, ages are set back two years for males and one year for females. For disabled General members, ages are set forward seven years for males and set forward eight years for females. For disabled Safety members, ages are set forward two years for males and females. |

Beneficiaries are assumed to have the same mortality as a General member of the opposite sex who is receiving a service retirement.

Other assumptions

Same of those used in June 30, 2014 actuarial valuation

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. This information is combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The June 30, 2014 and June 30, 2013 target allocations (approved by the Board) and projected arithmetic real rates of return for each major asset class, after deducting inflation, but before deducting investment expenses, used in the derivation of the long-term expected investment rate of return assumptions are summarized in the following tables:

June 30, 2014

| Asset Class | Target Allocation | Long-Term Expected Real Rate of Return |
|--------------------------------|----------------------|----------------------------------------------|
| Large Cap U.S. Equity | 5.00% | 5.94% |
| Small Cap U.S. Equity | 2.00% | 6.50% |
| Developed International Equity | 6.00% | 6.87% |
| Emerging Market Equity | 6.00% | 8.06% |
| U.S. Core Fixed Income | 2.00% | 0.69% |
| High Yield/Credit Strategies | 13.00% | 3.10% |
| Global Core Fixed Income | 1.00% | 0.30% |
| Emerging Market Debt | 6.00% | 4.16% |
| Real Estate | 9.00% | 4.96% |
| Cash & Equivalents | 2.00% | -0.03% |
| International Credit | 10.00% | 6.76% |
| Absolute Return | 13.00% | 2.88% |
| Real Assets | 6.00% | 6.85% |
| Long/Short Equity | 3.00% | 4.86% |
| Private Equity | <u>16.00%</u> | 9.64% |
| Total | 100.00% | |

June 30, 2013

| Asset Class | Target Allocation | Long-Term Expected Real Rate of Return |
|--------------------------------|----------------------|----------------------------------------------|
| U.S. Equity | 11,00% | 6.69% |
| Developed International Equity | 7.00% | 6.96% |
| Emerging Market Equity | 4.00% | 9.25% |
| U.S. Core Fixed Income | 6.00% | 1.38% |
| High Yield/Credit Strategies | 13.00% | 4.08% |
| Global Core Fixed Income | 10.00% | 1.53% |
| Emerging Market Debt | 6.00% | 4.68% |
| Real Estate | 9.00% | 5.40% |
| Cash & Equivalents | 2.00% | 0.76% |
| Absolute Return | 7.00% | 3.73% |
| Real Assets | 9.00% | 5.42% |
| Private Equity | <u>16.00%</u> | 10.84% |
| Total | 100.00% | |

Discount rate: The discount rates used to measure the total pension liability were 7.50% as of June 30, 2014 and 7.75% as of June 30, 2013, respectively. The projection of cash flows used to determine the discount rates assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rates. For this purpose, only employee and employer contributions that are intended to fund benefits for current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs for future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments for current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability as of both June 30, 2014 and June 30, 2013.

SECTION 2: GASB Information for San Bernardino County Employees' Retirement Association

Sensitivity of the June 30, 2014 net pension liability to changes in the discount rate. The following presents the net pension liability as of June 30, 2014, calculated using the discount rate of 7.50%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.50%) or 1-percentage-point higher (8.50%) than the current rate:

| | Current | | | | |
|-------------------------------------------|---------------------------|-----------------------|---------------------------|--|--|
| | 1.00% Decrease (6.50%) | Discount Rate (7.50%) | 1.00% Increase (8.50%) | | |
| Net pension liability as of June 30, 2014 | \$3,003,860,941 | \$1,699,754,868 | \$619,734,864 | | |

Sensitivity of the June 30, 2013 net pension liability to changes in the discount rate. The following presents the net pension liability as of June 30, 2013, calculated using the discount rate of 7.75%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.75%) or 1-percentage-point higher (8.75%) than the current rate:

| | Current | | | | |
|-------------------------------------------|---------------------------|-----------------------|---------------------------|--|--|
| | 1.00% Decrease (6.75%) | Discount Rate (7.75%) | 1.00% Increase (8.75%) | | |
| Net pension liability as of June 30, 2013 | \$3,190,414,137 | \$1,984,082,047 | \$982,657,777 | | |

EXHIBIT 3
Schedules of Changes in Net Pension Liability – Last Two Fiscal Years

| | 2014 | 2013 |
|--------------------------------------------------------------------------------|------------------------|------------------------|
| Total pension liability | | |
| Service cost | \$271,473,405 | \$273,020,175 |
| Interest | 709,992,812 | 673,932,152 |
| Change of benefit terms | 0 | 0 |
| Differences between expected and actual experience | -306,201,239 | -97,496,872 |
| Changes of assumptions | 328,748,000 | 0 |
| Benefit payments, including refunds of member contributions | <u>-397,823,478</u> | <u>-367,396,205</u> |
| Net change in total pension liability | \$606,189,500 | \$482,059,250 |
| Total pension liability – beginning | 9,088,635,907 | <u>8,606,576,657</u> |
| Total pension liability – ending (a) | \$9,694,825,407 | \$9,088,635,907 |
| Plan fiduciary net position | | |
| Contributions – employer | \$330,330,400 | \$303,080,499 |
| Contributions – member | 89,860,998 | 91,055,576 |
| Net investment income | 877,018,498 | 912,309,930 |
| Benefit payments, including refunds of member contributions | -397,823,478 | -367,396,205 |
| Administrative expense | -6,386,420 | -6,258,237 |
| Other expenses | <u>-2,483,319</u> | <u>-1,571,905</u> |
| Net change in plan fiduciary net position | \$890,516,679 | \$931,219,658 |
| Plan fiduciary net position – beginning | 7,104,553,860 | 6,173,334,202 |
| Plan fiduciary net position – ending (b) | \$7,995,070,539 | \$7,104,553,860 |
| Net pension liability – ending $(a) - (b) = (c)$ | <u>\$1,699,754,868</u> | <u>\$1,984,082,047</u> |
| Plan fiduciary net position as a percentage of the total pension liability | 82.47% | 78.17% |
| Covered employee payroll (d) | \$1,262,751,964 | \$1,260,309,037 |
| Plan net pension liability as percentage of covered employee payroll (c) / (d) | 134.61% | 157.43% |

Notes to Schedule:

Benefit changes:

All members with membership dates on or after January 1, 2013 enter the new tiers created by the California Public Employees' Pension Reform Act of 2013 (CalPEPRA).

EXHIBIT 4
Schedule of Contributions – Last Ten Fiscal Years

| Year Ended June 30 | Actuarially Determined Contributions ⁽¹⁾ | Contributions in Relation to the Actuarially Determined Contributions ⁽¹⁾ | Contribution Deficiency (Excess) | Covered-Employee Payroll | Contributions as a Percentage of Covered Employee Payroll |
|-----------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|--------------------------------------------------------------------|
| 2005 | \$96,345,872 | \$96,345,872 | \$0 | \$943,545,971 | 10.21% |
| 2006 | 129,077,654 | 129,077,654 | 0 | 968,674,295 | 13.33% |
| 2007 | 164,992,436 | 164,992,436 | 0 | 1,028,730,826 | 16.04% |
| 2008 | 162,619,197 | 162,619,197 | 0 | 1,102,150,627 | 14.75% |
| 2009 | 166,081,964 | 166,081,964 | 0 | 1,219,561,653 | 13.62% |
| 2010 | 163,959,509 | 163,959,509 | 0 | 1,226,431,276 | 13.37% |
| 2011 | 180,755,714 | 180,755,714 | 0 | 1,250,192,961 | 14.46% |
| 2012 | 210,000,343 | 210,000,343 | 0 | 1,244,554,740 | 16.87% |
| 2013 | 248,840,990 | 248,840,990 | 0 | 1,260,309,037 | 19.74% |
| 2014 | 278,352,174 | 278,352,174 | 0 | 1,262,751,964 | 22.04% |

⁽¹⁾ The Board has approved all contribution rates recommended by the actuary. Actuarially determined contributions include contributions required for the survivor benefit, and excludes employer paid member contributions, UAAL prepayments, golden handshake payments, funds deposited for purchase of service credit, payments made by withdrawn employers, member paid employer contributions and member contributions.

SECTION 2: GASB Information for San Bernardino County Employees' Retirement Association

Notes to Exhibit 4

Methods and assumptions used to establish "actuarially determined contribution" rates:

Valuation date Actuarially determined contribution rates are calculated as of June 30, two years prior to the

end of the fiscal year in which contributions are reported

Actuarial cost method Entry Age Actuarial Cost Method

Amortization method Level percent of payroll (3.75% payroll growth assumed)

Remaining amortization period 20 years for all UAAL prior to June 30, 2002. Any changes in UAAL after June 30, 2002 are

amortized over a 20-year closed period effective with each valuation. Effective June 30, 2011,

any changes in UAAL due to actuarial gains or losses or due to changes in actuarial

assumptions or methods will be amortized over a 20-year closed period effective with each valuation. Any change in unfunded actuarial accrued liability that arises due to plan

amendments is amortized over its own declining 15-year period (with exception of a change

due to retirement incentives, which is amortized over a declining period of up to 5 years).

Asset valuation methodMarket value of assets less unrecognized returns from each of the last five years.

Unrecognized returns are equal to the difference between the actual market return and the expected return on a market value basis and are recognized over a five-year period. The Actuarial Value of Assets is reduced by the value of the non-valuation reserves. Deferred gains and losses as of June 30, 2011 have been combined and will be recognized in equal

amounts over a period of four years from that date.

Other information:

All members with membership dates on or after January 1, 2013 enter the Tier 2 created by

the California Public Employees' Pension Reform Act of 2013 (CalPEPRA).

SECTION 2: GASB Information for San Bernardino County Employees' Retirement Association

| | <u>June 30, 2014</u> | <u>June 30, 2013</u> |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Actuarial assumptions: | | |
| Investment rate of return | 7.50%, net of pension plan investment expenses, including inflation | 7.75%, net of pension plan administration and investment expenses, including inflation |
| Inflation rate | 3.25% | 3.50% |
| Real across-the-board salary increase | 0.50% | 0.50% |
| Projected salary increases* | General: 4.60% to 13.75% and Safety: 4.55% to 13.75% | General: 4.75% to 14.00% and Safety: 4.75% to 14.00% |
| Administrative Expenses | 0.60% of payroll allocated to both the employer and member based on the components of the total contribution rate (before expenses) for the employer and member. | Offset to investment return |
| Cost of living adjustments | 2.00% (actual increases contingent upon CPI increases with a 2% maximum) | 2.00% (actual increases contingent upon CPI increases with a 2% maximum) |
| Other assumptions | Same as those used in the June 30, 2014 funding actuarial valuation | Same as those used in the June 30, 2013 funding actuarial valuation |

^{*}Includes inflation at 3.25% as of June 30, 2014 and 3.50% as of June 30, 2013 plus real across-the-board salary increase of 0.50% plus merit and promotional increases.

EXHIBIT 5

Projection of Pension Plan's Fiduciary Net Position for Use in Calculation of Discount Rate as of June 30, 2014
(\$ in millions)

| Year Beginning July 1 | Projected Beginning Plan Fiduciary Net Position (a) | Projected Total Contributions (b) | Projected Benefit Payments (c) | Projected Administrative Expenses (d) | Projected Investment Earnings (e) | Projected Ending Plan Fiduciary Net Position (f) = (a) + (b) - (c) - (d) + (e) |
|-----------------------------|--------------------------------------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|
| 2014 | \$7,995 | \$458 | \$468 | \$7 | \$598 | \$8,575 |
| 2015 | 8,575 | 468 | 485 | 7 | 641 | 9,192 |
| 2016 | 9,192 | 465 | 521 | 8 | 685 | 9,814 |
| 2017 | 9,814 | 455 | 557 | 8 | 730 | 10,434 |
| 2018 | 10,434 | 451 | 596 | 8 | 775 | 11,056 |
| 2019 | 11,056 | 451 | 636 | 8 | 820 | 11,683 |
| 2020 | 11,683 | 451 | 677 | 9 | 865 | 12,314 |
| 2021 | 12,314 | 452 | 720 | 9 | 911 | 12,947 |
| 2022 | 12,947 | 446 | 765 | 9 | 956 | 13,575 |
| 2023 | 13,575 | 366 | 810 | 10 | 999 | 14,119 |
| 2039 | 18,705 | 99 | 1,491 | 18 | 1,345 | 18,642 |
| 2040 | 18,642 | 91 | 1,520 | 18 | 1,339 | 18,533 |
| 2041 | 18,533 | 84 | 1,547 | 19 | 1,330 | 18,381 |
| 2042 | 18,381 | 76 | 1,569 | 20 | 1,317 | 18,185 |
| 2043 | 18,185 | 70 | 1,587 | 20 | 1,301 | 17,948 |
| 2053 | 14,497 | 35 | 1,487 | 30 | 1,027 | 14,043 |
| 2063 | 10,443 | 43 | 1,022 | 43 | 742 | 10,162 |
| 2073 | 9,690 | 62 | 472 | 62 | 708 | 9,926 |
| 2083 | 15,473 | 89 | 107 | 89 | 1,156 | 16,522 |
| 2093 | 31,092 | 129 | 9 | 129 | 2,332 | 33,415 |
| 2103 | 64,024 | 187 | 0 | 187 | 4,802 | 68,826 |
| 2113 | 131,954 | 270 | 0 | 270 | 9,897 | 141,850 |
| 2123 | 271,961 | 389 | 0 | 389 | 20,397 | 292,358 |
| 2129 | 419,717 | 486 | 0 * | 486 | 31,479 | 451,196 |
| 2130 | 451,196 scounted Value: 103 ** | 400 | Ü | 400 | 31,479 | 4: |

^{*} Less than \$1 million, when rounded.

^{** \$451,196} million when discounted with interest at the rate of 7.50% per annum has a value of \$103 million as of June 30, 2014.

EXHIBIT 5

Projection of Pension Plan's Fiduciary Net Position for Use in Calculation of Discount Rate as of June 30, 2014 (\$ in millions) - continued

Notes:

- Amounts may not total exactly due to rounding.
- (2) Certain years have been omitted from the table.
- (3) <u>Column (a)</u>: Except for the "discounted value" shown for 2130, none of the projected beginning plan fiduciary net position amounts shown have been adjusted for the time value of money.
- (4) <u>Column (b)</u>: Projected total contributions include employee and employer normal cost rates applied to closed group projected payroll (based on covered active members as of June 30, 2014), plus employer contributions to the unfunded actuarial accrued liability. Contributions are assumed to occur halfway through the year, on average.
- (5) Column (c): Projected benefit payments have been determined in accordance with paragraph 39 of GASB Statement No. 67, and are based on the closed group of active, inactive vested, retired members, and beneficiaries as of June 30, 2014. The projected benefit payments are assumed to occur halfway through the year, on average and reflect the cost of living increase assumptions used in the June 30, 2014 valuation report.
- (6) Column (d): Projected administrative expenses are assumed to be 0.6% of projected payroll and are assumed to occur halfway through the year, on average.
- (7) <u>Column (e)</u>: Projected investment earnings are based on the assumed investment rate of return of 7.50% per annum.
- (8) As illustrated in this Exhibit, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments for current Plan members. In other words, there is no projected "cross-over date" when projected benefits are <u>not</u> covered by projected assets. Therefore, the long-term expected rate of return on Plan investments of 7.50% per annum was applied to all periods of projected benefit payments to determine the total pension liability as of June 30, 2014 shown earlier in this report, pursuant to paragraph 44 of GASB Statement No. 67.

EXHIBIT 6
Projection of Pension Plan's Fiduciary Net Position for Use in Calculation of Discount Rate as of June 30, 2013 (\$ in millions)

| Year Beginning July 1 | Projected Beginning Plan Fiduciary Net Position (a) | Projected Total Contributions (b) | Projected Benefit Payments (c) | Projected Administrative Expenses (d) | Projected Investment Earnings (e) | Projected Ending Plan Fiduciary Net Position (f) = (a) + (b) - (c) - (d) + (e) |
|-----------------------------|--------------------------------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|
| 2013 | \$7,105 | \$426 | \$431 | \$8 | \$552 | \$7,644 |
| 2014 | 7,644 | 436 | 451 | 8 | 593 | 8,213 |
| 2015 | 8,213 | 444 | 486 | 9 | 636 | 8,799 |
| 2016 | 8,799 | 446 | 523 | 9 | 680 | 9,393 |
| 2017 | 9,393 | 441 | 562 | 10 | 725 | 9,987 |
| 2018 | 9,987 | 441 | 602 | 10 | 769 | 10,585 |
| 2019 | 10,585 | 442 | 645 | 10 | 814 | 11,186 |
| 2020 | 11,186 | 442 | 688 | 11 | 859 | 11,788 |
| 2021 | 11,788 | 443 | 733 | 11 | 904 | 12,391 |
| 2022 | 12,391 | 438 | 780 | 12 | 949 | 12,986 |
| 2038 | 17,352 | 64 | 1,451 | 22 | 1,295 | 17,239 |
| 2039 | 17,239 | 57 | 1,478 | 23 | 1,285 | 17,080 |
| 2040 | 17,080 | 50 | 1,501 | 23 | 1,271 | 16,876 |
| 2041 | 16,876 | 43 | 1,520 | 24 | 1,255 | 16,630 |
| 2042 | 16,630 | 37 | 1,533 | 25 | 1,235 | 16,343 |
| 2052 | 12,468 | 3 | 1,387 | 38 | 916 | 11,963 |
| 2062 | 7,635 | 0 | 915 | 56 | 557 | 7,222 |
| 2072 | 4,621 | 0 | 402 | 82 | 341 | 4,477 |
| 2082 | 4,495 | 0 | 87 | 122 | 341 | 4,627 |
| 2092 | 6,704 | 0 | 7 | 180 | 512 | 7,028 |
| 2102 | 10,950 | 0 | 0 | 267 | 838 | 11,520 |
| 2112 | 18,440 | 0 | 0 | 395 | 1,414 | 19,459 |
| 2122 | 32,006 | 0 | 0 | 585 | 2,458 | 33,879 |
| 2124 2125 | 35,872 37,994 | 0 | 0 * | 633 | 2,756 | 37,994 |
| | Discounted Value: 9 ** | | | | | |

Less than \$1 million, when rounded.

^{** \$37,994} million when discounted with interest at the rate of 7.75% per annum has a value of \$9 million as of June 30, 2013.

EXHIBIT 6

Projection of Pension Plan's Fiduciary Net Position for Use in Calculation of Discount Rate as of June 30, 2013 (\$ in millions) - continued

Notes:

- Amounts may not total exactly due to rounding.
- (2) Certain years have been omitted from the table.
- (3) <u>Column (a)</u>: Except for the "discounted value" shown for 2125, none of the projected beginning plan fiduciary net position amounts shown have been adjusted for the time value of money.
- (4) <u>Column (b)</u>: Projected total contributions include employee and employer normal cost rates applied to closed group projected payroll (based on covered active members as of June 30, 2013), plus employer contributions to the unfunded actuarial accrued liability. Contributions are assumed to occur halfway through the year, on average.
- (5) Column (c): Projected benefit payments have been determined in accordance with paragraph 39 of GASB Statement No. 67, and are based on the closed group of active, inactive vested, retired members, and beneficiaries as of June 30, 2013. The projected benefit payments are assumed to occur halfway through the year, on average and reflect the cost of living increase assumptions used in the June 30, 2013 valuation report.
- (6) Column (d): Projected administrative expenses are calculated assuming a 4.00% increase every year from the actual amount of \$7,830,142 reported in June 30, 2012 CAFR. Administrative expenses are assumed to occur halfway through the year, on average.
- (7) <u>Column (e)</u>: Projected investment earnings are based on the assumed investment rate of return of 7.75% per annum.
- (8) As illustrated in this Exhibit, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments for current Plan members. In other words, there is no projected "cross-over date" when projected benefits are <u>not</u> covered by projected assets. Therefore, the long-term expected rate of return on Plan investments of 7.75% per annum was applied to all periods of projected benefit payments to determine the total pension liability as of June 30, 2013 shown earlier in this report, pursuant to paragraph 44 of GASB Statement No. 67.

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