BACKGROUND:

The public may address the Retirement Board of Authority (RBOA) on any matter pertaining to the Board that is not on the agenda.

RECOMMENDATION:

The Chair reserves the right to limit the time of presentations by individual or topic.
SIERRA JOINT COMMUNITY COLLEGE DISTRICT
RETIREMENT BOARD OF AUTHORITY MEETING

PRESENTED TO: Retirement Board of Authority

DATE: 07/20/2016

SUBJECT: Approval of Agenda

ITEM #: 2016/2017-002
Enclosure: Yes
Action Item: Yes

Prepared by: Keenan Financial Services
Requested by: Retirement Board of Authority

BACKGROUND:

Under California Government Code Section §54950 (The Ralph M. Brown Act) the “Legislative Body” is required to post an agenda detailing each item of business to be discussed. The Authority posts the agenda in compliance with California Government Code Section §54954.2.

STATUS:

Unless items are added to the agenda according to G.C. §54954.2 (b) (1) (2) (3) the agenda is to be approved as posted.

RECOMMENDATION:

Subject to changes or corrections, the agenda is to be approved.
AGENDA

SIERRA JOINT COMMUNITY COLLEGE DISTRICT
RETIREMENT BOARD OF AUTHORITY MEETING
July 20, 2016
2:00 PM – 4:00 PM

SIERRA JOINT COMMUNITY COLLEGE DISTRICT
Board Room - L-193
5000 Rocklin Road
Rocklin, CA 95677
(916) 624-3333

Conference Call (866)434-7676  Passcode 946946

I. CALL TO ORDER

II. ROLL CALL

RETIREMENT BOARD OF AUTHORITY (the “Board”) MEMBERS

Vice President, Administrative Services
Director, Human Resources
Federation of United School Employees (FUSE)
Sierra College Faculty Association (SCFA)
Sierra College Management Association (SCMA)
Vice President, Student Services
“Pre 94” Retiree of Sierra Joint CCD

Chris Yatooma
Cameron Abbott
Greg Van De Bogart
Todd Jensen
Donna Brazil-Bloche
Mandy Davies
Adele Hamlett

PROGRAM COORDINATOR

Senior Vice President, Keenan Financial Services (KFS)
Senior Account Manager, Keenan Financial Services (KFS)

Gail Beal (Via Phone)
Roslyn Washington (Via Phone)

GUESTS

OTHER

None

III. PUBLIC COMMENTS

The public may address the Retirement Board of Authority on any matter pertaining to the Board that is not on the agenda. The Chair reserves the right to limit the time of presentations by individual or topic.
IV. APPROVAL OF AGENDA

The Retirement Board of Authority retains the right to change the order in which agenda items are discussed. Subject to review by the Retirement Board, the agenda is to be approved as presented. Items may be deleted or added for discussion only according to G.C. Section 54954.2.

PUBLIC COMMENTS:
BOARD CONSIDERATION:

V. APPROVAL OF MINUTES

The Retirement Board will review the Minutes from the previous Board Meeting on April 27, 2016 for any adjustments and adoption.
PUBLIC COMMENTS:
BOARD CONSIDERATION:

VI. ADMINISTRATION

ACTUARIAL VALUATION STUDY REVIEW

The Retirement Board of Authority members will review the District’s liability (UAAL) as reflected in the current Actuarial Valuation Study and in light of the standards profiled in the Exposure Drafts issued by GASB.
PUBLIC COMMENTS:
BOARD CONSIDERATION:

VII. INFORMATION REPORTS

RETIREMENT BOARD OF AUTHORITY COMMENTS

Each Retirement Board of Authority member may report about various matters involving the Board. There will be no Board discussion except to ask questions or refer matters to staff, and no action will be taken unless listed on a subsequent agenda.

PROGRAM COORDINATOR/CONSULTANT COMMENT

The Program Coordinator and Consultants will report to the Authority about various matters involving the Board. There will be no Board discussion except to ask questions, and no action will be taken unless listed on a subsequent agenda.

VIII. DATE, TIME AND AGENDA ITEMS FOR NEXT MEETING

The Agenda Items for the next meeting will be the same as for this meeting. Board members and visitors may suggest additional items for consideration at the next District’s Retirement Board of Authority meeting.
PUBLIC COMMENTS:
BOARD CONSIDERATION:
Americans with Disabilities Act The Sierra Joint Community College District’s Retirement Board of Authority conforms to the protections and prohibitions contained in Section 202 of the Americans with Disabilities Act of 1990 and the federal rules and regulations adopted in implementation thereof. A request for disability-related modification or accommodation, in order to participate in a public meeting of the Sierra Joint Community College District’s Retirement Board of Authority meeting, shall be made to: Chris Yatooma, VP Administrative Services, Sierra Joint Community College District, 5000 Rocklin Road, Rocklin, CA 95677.
PRESENTED TO: Retirement Board of Authority

DATE: 07/20/2016

SUBJECT: Approval of Minutes

ITEM #: 2016/2017-003

Enclosure: Yes

Action Item: Yes

Prepared by: Keenan Financial Services

Requested by: Retirement Board of Authority

BACKGROUND:

As a matter of record and in accordance with the Brown Act, minutes of each meeting are kept and recorded.

STATUS:

The Board will review the Minutes from the previous Retirement Board of Authority (RBOA) Meeting on April 27, 2016.

RECOMMENDATION:

Subject to changes or corrections, the Minutes are to be approved.
MINUTES
SIERRA JOINT COMMUNITY COLLEGE DISTRICT
RETIREMENT BOARD OF AUTHORITY MEETING
APRIL 27, 2016
2:00 PM–4:00 PM

I. CALL TO ORDER
1. Meeting was called to order at 2:09 AM by Gail Beal, Senior Vice President, Keenan Financial Services.

II. ROLL CALL
1. All RBOA members reported their presence at the meeting present except Mandy Davies.
2. All District Investment Trust Coordinators/Consultants were in attendance.

III. PUBLIC COMMENTS
1. There were some members of the public in attendance.

IV. APPROVAL OF AGENDA
1. Chris Yatooma Motioned to accept the Agenda as presented; Motion was seconded by Cameron Abbott.

V. APPROVAL OF MINUTES
1. With a correction by Todd Jensen, Motioned to accept the Minutes from the previous RBOA meeting as presented; Motion was seconded by Christ Yatooma.

VI. INVESTMENTS
1. Portfolio Performance Review
   Cary Allison of Morgan Stanley (MS) reviewed the performance of the Investment Trust’s portfolio account as of February 29, 2016.

   Time weighted return net of fees:
   
<table>
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<tr>
<th>Month to Date</th>
<th>Quarter to Date</th>
<th>Year to Date</th>
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<th>Annualized latest 3 Year</th>
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</table>

   a. Cary advised that the District’s portfolio reflected an April 26, 2016 Market Value of $10,294,912.
   b. Cary pointed out that the Royce Fund was replaced with the Undiscovered Managers Funds Behavioral Value Ins. Fund due to performance related issues.
   c. Chris Yatooma Motioned to accept the Portfolio Performance Review as presented; Motion was seconded by Donna Brazil-Bloche.
2. Market Overview
   a. Cary Allison presented Morgan Stanley’s Global Investment Committee capital markets overview.
   b. Cary explained how earnings are the key to growth and in 2015 earnings were at approximately $118 per share. In 2015 earnings were not up and there was no growth. The last three quarters of 2015 were not good so it wiped out all of the growth from 2014, which was a good year, along with the first quarter of 2015.
   c. Fang stocks did very well…Facebook, Amazon, Netflix, and Google.
   d. We have been in a Bear Market for the past 1-5 years. We think we will get about 6% earnings growth this year and earnings will reach about $26.
   e. The first two weeks of 2016 were the worst in Market History. The market was a reflection of two things: China and Oil. Oil will go up eventually because the world cannot operate at $30.00 per barrel. Technology may keep oil prices down, but we think it will move up. Today, March 16th it’s up to $38.00 per barrel.
   f. The United States is the Saudi Arabia of natural gas. We can ship it to Europe. They buy it at $14-$15. We can get it out of the ground for $2.00.
   g. There is a huge technology revolution going on now. People were thinking we were heading into a recession. Morgan Stanley just feels we are experiencing slow growth.
   h. Last year Corporate Bonds significantly underperformed compared to Treasury’s.
   i. We don’t see a global recession.
   j. Morgan Stanley thinks the Feds will raise short term rate again.
   k. We do not recommend any changes.

VIII. ADMINISTRATION
1. Disbursement Report
   A report showing posted expenses for Keenan, BTC & Morgan Stanley services for the posting period November 18, 2015 through March 2016 was presented by Gail Beal of Keenan Financial Services. Chris Yatooma Motioned to ratify the District’s fiduciary expenses for the posted period, Motion was seconded by Adele Hamlett.

2. Actuarial Valuation Study Update
   The last Actuarial Valuation Study Update was done on May 2014 and the new one is due at the end of May 2016. Gail Beal explained that the new GASB 74 and 75 regulations require all public agencies need to have Actuarial Valuation Study done every two years.

3. Future Transfer of Assets Into The Trust
   The RBOA advised that the District will continue its current funding protocols and make monthly deposits to the Investment Trust.

4. Retirement Board of Authority – Election of a Chairperson
   The Retirement Board of Authority (RBOA) has elected a new Chairperson, as Adele Hamlett nominated Chris Yatooma, Motion was seconded by Greg Van De Bogart.

5. Retirement Board of Authority – Election of a Vice-Chairperson
   The Retirement Board of Authority (RBOA) has elected a new Vice-Chairperson, as Chris Yatooma nominated Cameron Abbott, Motion was seconded by Donna
IX. INFORMATION REPORTS

1. Retirement Board of Authority Comments
   a. There were no Retirement Board of Authority (RBOA) comments.

2. Program Coordinator/Consultant Comments
   a. There were no Program Coordinator/Consultant comments.

3. Date, Time and Agenda Items for Next Meetings
   a. July 20, 2016 at 2:00 PM–4:00 PM
   b. October 12, 2016 at 2:00 PM–4:00 PM

4. Adjournment
   a. Meeting was adjourned at 3:50 PM by Gail Beal of Keenan Financial Services.
SIERRA JOINT COMMUNITY COLLEGE DISTRICT
RETIREMENT BOARD OF AUTHORITY MEETING

PRESENTED TO:                      DATE:        07/20/2016
Retirement Board of Authority

SUBJECT:                          ITEM #:     2016/2017-004
Actuarial Valuation Study Review  Enclosure:  Yes

Action Item:                     No

Prepared by:                     Keenan Financial Services
Requested by:                    Retirement Board of Authority

BACKGROUND:

Paragraph 12, of GASB Statement 45, states that an Actuarial Valuation Study should be performed at least biannually. The Retirement Board of Authority should discuss and anticipate any need for obtaining an updated study.

STATUS:

The District’s current Actuarial Valuation Study has an effective date of July 1, 2016 in DRAFT form. The Retirement Board of Authority shall discuss the District’s liability (UAAL) as reflected in the current Actuarial Valuation Study and in light of the standards profiled in the Exposure Drafts issued by GASB.

RECOMMENDATION:

The Retirement Board of Authority shall hear and receive the information presented.
Sierra Joint Community College District
Actuarial Study of
Retiree Health Liabilities
As of July 1, 2016

Prepared by:
Total Compensation Systems, Inc.

Date: July 3, 2016
Table of Contents

PART I: EXECUTIVE SUMMARY .................................................................................................................. 1
   A. INTRODUCTION ................................................................................................................................. 1
   B. GENERAL FINDINGS ......................................................................................................................... 2
   C. DESCRIPTION OF RETIREE BENEFITS ......................................................................................... 2
   D. RECOMMENDATIONS ...................................................................................................................... 3

PART II: BACKGROUND ............................................................................................................................ 5
   A. SUMMARY ......................................................................................................................................... 5
   B. ACTUARIAL ACCRUAL .................................................................................................................... 5

PART III: LIABILITIES AND COSTS FOR RETIREE BENEFITS ............................................................ 7
   A. INTRODUCTION ................................................................................................................................. 7
   B. MEDICARE ....................................................................................................................................... 7
   C. LIABILITY FOR RETIREE BENEFITS ............................................................................................ 7
   D. COST TO PREFUND RETIREE BENEFITS ...................................................................................... 8
      1. Normal Cost ................................................................................................................................. 8
      2. Amortization of Unfunded Actuarial Accrued Liability (UAAL) ................................................. 9
      3. Annual Required Contributions (ARC) ..................................................................................... 9
      4. Other Components of Annual OPEB Cost (AOC) ................................................................ 10

PART IV: "PAY AS YOU GO" FUNDING OF RETIREE BENEFITS ......................................................... 11

PART V: RECOMMENDATIONS FOR FUTURE VALUATIONS ............................................................. 12

PART VI: APPENDICES ............................................................................................................................ 13
   APPENDIX A: MATERIALS USED FOR THIS STUDY ........................................................................... 13
   APPENDIX B: EFFECT OF ASSUMPTIONS USED IN CALCULATIONS ............................................... 14
   APPENDIX C: ACTUARIAL ASSUMPTIONS AND METHODS ............................................................. 15
   APPENDIX D: DISTRIBUTION OF ELIGIBLE PARTICIPANTS BY AGE ........................................ 19
   APPENDIX E: CALCULATION OF GASB 43/45 ACCOUNTING ENTRIES ...................................... 20
   APPENDIX F: GLOSSARY OF RETIREE HEALTH VALUATION TERMS ......................................... 22
Sierra Joint Community College District
Actuarial Study of Retiree Health Liabilities

PART I: EXECUTIVE SUMMARY

A. Introduction

Sierra Joint Community College District engaged Total Compensation Systems, Inc. (TCS) to analyze liabilities associated with its current retiree health program as of July 1, 2016 (the valuation date). The numbers in this report are based on the assumption that they will first be used to determine accounting entries for the fiscal year ending June 30, 2016. If the report will first be used for a different fiscal year, the numbers will need to be adjusted accordingly.

This report does not reflect any cash benefits paid unless the retiree is required to provide proof that the cash benefits are used to reimburse the retiree’s cost of health benefits. Costs and liabilities attributable to cash benefits paid to retirees are reportable under Governmental Accounting Standards Board (GASB) Standards 25/27.

This actuarial study is intended to serve the following purposes:

- To provide information to enable Sierra CCD to manage the costs and liabilities associated with its retiree health benefits.
- To provide information to enable Sierra CCD to communicate the financial implications of retiree health benefits to internal financial staff, the Board, employee groups and other affected parties.
- To provide information needed to comply with Governmental Accounting Standards Board Accounting Standards 43 and 45 related to "other postemployment benefits" (OPEB's).

Because this report was prepared in compliance with GASB 43 and 45, as appropriate, Sierra CCD should not use this report for any other purpose without discussion with TCS. This means that any discussions with employee groups, governing Boards, etc. should be restricted to the implications of GASB 43 and 45 compliance.

This actuarial report includes several estimates for Sierra CCD's retiree health program. In addition to the tables included in this report, we also performed cash flow adequacy tests as required under Actuarial Standard of Practice 6 (ASOP 6). Our cash flow adequacy testing covers a twenty-year period. We would be happy to make this cash flow adequacy test available to Sierra CCD in spreadsheet format upon request.

We calculated the following estimates separately for active employees and retirees. As requested, we also separated results by the following employee classifications: Certificated, Classified and Management. We estimated the following:

- the total liability created. (The actuarial present value of total projected benefits or APVTPB)
- the twenty five year "pay-as-you-go" cost to provide these benefits.
- the "actuarial accrued liability (AAL)." (The AAL is the portion of the APVTPB attributable to employees’ service prior to the valuation date.)
Total Compensation Systems, Inc.

- the amount necessary to amortize the UAAL over a period of 22 years.
- the annual contribution required to fund retiree benefits over the working lifetime of eligible employees (the "normal cost").
- The Annual Required Contribution (ARC) which is the basis of calculating the annual OPEB cost and net OPEB obligation under GASB 43 and 45.

We summarized the data used to perform this study in Appendix A. No effort was made to verify this information beyond brief tests for reasonableness and consistency.

All cost and liability figures contained in this study are estimates of future results. Future results can vary dramatically and the accuracy of estimates contained in this report depends on the actuarial assumptions used. Normal costs and liabilities could easily vary by 10 - 20% or more from estimates contained in this report.

B. General Findings

We estimate the "pay-as-you-go" cost of providing retiree health benefits in the year beginning July 1, 2016 to be $3,009,421 (see Section IV.A.). The “pay-as-you-go” cost is the cost of benefits for current retirees.

For current employees, the value of benefits "accrued" in the year beginning July 1, 2016 (the normal cost) is $171,432. This normal cost would increase each year based on covered payroll. Had Sierra CCD begun accruing retiree health benefits when each current employee and retiree was hired, a substantial liability would have accumulated. We estimate the amount that would have accumulated to be $43,429,853. This amount is called the "actuarial accrued liability" (AAL). The remaining unamortized balance of the initial unfunded AAL (UAAL) is $51,473,769. This leaves a “residual” AAL of negative $8,043,916.

Sierra CCD has established a GASB 43 trust for future OPEB benefits. The actuarial value of plan assets at June 30, 2016 was $10,356,205. This leaves a residual unfunded actuarial accrued liability (UAAL) of negative $18,400,121. We calculated the annual cost to amortize the residual unfunded actuarial accrued liability using a 6.5% discount rate. We used an open 22 year amortization period. The current year cost to amortize the residual unfunded actuarial accrued liability is negative $1,595,129.

Combining the normal cost with both the initial and residual UAAL amortization costs produces an annual required contribution (ARC) of $3,038,626. The ARC is used as the basis for determining expenses and liabilities under GASB 43/45. The ARC is used in lieu of (rather than in addition to) the “pay-as-you-go” cost.

We based all of the above estimates on employees as of June, 2016. Over time, liabilities and cash flow will vary based on the number and demographic characteristics of employees and retirees.

C. Description of Retiree Benefits

Following is a description of the current retiree benefit plan, which only applies to employees hired prior to April 1, 1994.
D. Recommendations

It is outside the scope of this report to make specific recommendations of actions Sierra CCD should take to manage the substantial liability created by the current retiree health program. Total Compensation Systems, Inc. can assist in identifying and evaluating options once this report has been studied. The following recommendations are intended only to allow the District to get more information from this and future studies. Because we have not conducted a comprehensive administrative audit of Sierra CCD’s practices, it is possible that Sierra CCD is already complying with some or all of our recommendations.

- We recommend that Sierra CCD inventory all benefits and services provided to retirees – whether contractually or not and whether retiree-paid or not. For each, Sierra CCD should determine whether the benefit is material and subject to GASB 43 and/or 45.

- We recommend that Sierra CCD conduct a study whenever events or contemplated actions significantly affect present or future liabilities, but no less frequently than every two years, as required under GASB 43/45.

- We recommend that the District communicate the magnitude of these costs to employees and include employees in discussions of options to control the costs.

- Under GASB 45, it is important to isolate the cost of retiree health benefits. Sierra CCD should have all premiums, claims and expenses for retirees separated from active employee premiums, claims, expenses, etc. To the extent any retiree benefits are made available to retirees over the age of 65 – *even on a retiree-pay-all basis* – all premiums, claims and expenses for post-65 retiree coverage should be segregated from those for pre-65 coverage. Furthermore, Sierra CCD should arrange for the rates or prices of all retiree benefits to be set on what is expected to be a self-sustaining basis.

- Sierra CCD should establish a way of designating employees as eligible or ineligible for future OPEB benefits. Ineligible employees can include those in ineligible job classes; those hired after a designated date restricting eligibility; those who, due to their age at hire cannot qualify for District-paid OPEB benefits; employees who exceed the termination age for OPEB benefits, etc.

- Several assumptions were made in estimating costs and liabilities under Sierra CCD’s retiree health program. Further studies may be desired to validate any assumptions where there is any doubt that the assumption is appropriate. (See Appendices B and C for a list of assumptions and concerns.) For example, Sierra CCD should maintain a retiree database.
that includes – in addition to date of birth, gender and employee classification – retirement date and (if applicable) dependent date of birth, relationship and gender. It will also be helpful for Sierra CCD to maintain employment termination information – namely, the number of OPEB-eligible employees in each employee class that terminate employment each year for reasons other than death, disability or retirement.

Respectfully submitted,

Geoffrey L. Kischuk, FSA, MAAA, FCA
Consultant
Total Compensation Systems, Inc.
(805) 496-1700
PART II: BACKGROUND

A. Summary

Accounting principles provide that the cost of retiree benefits should be “accrued” over employees' working lifetime. For this reason, the Governmental Accounting Standards Board (GASB) issued in 2004 Accounting Standards 43 and 45 for retiree health benefits. These standards apply to all public employers that pay any part of the cost of retiree health benefits for current or future retirees (including early retirees).

B. Actuarial Accrual

To actuarially accrue retiree health benefits requires determining the amount to expense each year so that the liability accumulated at retirement is, on average, sufficient (with interest) to cover all retiree health expenditures without the need for additional expenses. There are many different ways to determine the annual accrual amount. The calculation method used is called an “actuarial cost method.”

Under most actuarial cost methods, there are two components of actuarial cost - a “normal cost” and amortization of something called the “unfunded actuarial accrued liability.” Both accounting standards and actuarial standards usually address these two components separately (though alternative terminology is sometimes used).

The normal cost can be thought of as the value of the benefit earned each year if benefits are accrued during the working lifetime of employees. This report will not discuss differences between actuarial cost methods or their application. Instead, following is a description of a commonly used, generally accepted actuarial cost method permitted under GASB 43 and 45. This actuarial cost method is called the “entry age normal” method.

Under the entry age normal cost method, the actuary determines the annual amount needing to be expensed from hire until retirement to fully accrue the cost of retiree health benefits. This amount is the normal cost. Under GASB 43 and 45, normal cost can be expressed either as a level dollar amount or a level percentage of payroll.

The normal cost is determined using several key assumptions:

- The current cost of retiree health benefits (often varying by age, Medicare status and/or dependent coverage). The higher the current cost of retiree benefits, the higher the normal cost.

- The “trend” rate at which retiree health benefits are expected to increase over time. A higher trend rate increases the normal cost. A “cap” on District contributions can reduce trend to zero once the cap is reached thereby dramatically reducing normal costs.

- Mortality rates varying by age and sex. (Unisex mortality rates are not often used as individual OPEB benefits do not depend on the mortality table used.) If employees die prior to retirement, past contributions are available to fund benefits for employees who live to retirement. After retirement, death results in benefit termination or reduction. Although higher mortality rates reduce normal costs, the mortality assumption is not likely to vary from employer to employer.

- Employment termination rates have the same effect as mortality inasmuch as higher termination rates reduce normal costs. Employment termination can vary considerably between public agencies.

- The service requirement reflects years of service required to earn full or partial retiree benefits.
While a longer service requirement reduces costs, cost reductions are not usually substantial unless the service period exceeds 20 years of service.

- **Retirement rates** determine what proportion of employees retire at each age (assuming employees reach the requisite length of service). Retirement rates often vary by employee classification and implicitly reflect the minimum retirement age required for eligibility. Retirement rates also depend on the amount of pension benefits available. Higher retirement rates increase normal costs but, except for differences in minimum retirement age, retirement rates tend to be consistent between public agencies for each employee type.

- **Participation rates** indicate what proportion of retirees are expected to elect retiree health benefits if a significant retiree contribution is required. Higher participation rates increase costs.

- The **discount rate** estimates investment earnings for assets earmarked to cover retiree health benefit liabilities. The discount rate depends on the nature of underlying assets. For example, employer funds earning money market rates in the county treasury are likely to earn far less than an irrevocable trust containing a diversified asset portfolio including stocks, bonds, etc. A higher discount rate can dramatically lower normal costs. GASB 43 and 45 require the interest assumption to reflect likely long term investment return.

The assumptions listed above are not exhaustive, but are the most common assumptions used in actuarial cost calculations. The actuary selects the assumptions which - taken together - will yield reasonable results. It's not necessary (or even possible) to predict individual assumptions with complete accuracy.

If all actuarial assumptions are exactly met and an employer expensed the normal cost every year for all past and current employees and retirees, a sizeable liability would have accumulated (after adding interest and subtracting retiree benefit costs). The liability that would have accumulated is called the actuarial accrued liability or AAL. The excess of AAL over the **actuarial value of plan assets** is called the unfunded actuarial accrued liability (or UAAL). Under GASB 43 and 45, in order for assets to count toward offsetting the AAL, the assets have to be held in an irrevocable trust that is safe from creditors and can only be used to provide OPEB benefits to eligible participants.

The actuarial accrued liability (AAL) can arise in several ways. At inception of GASB 43 and 45, there is usually a substantial UAAL. Some portion of this amount can be established as the "transition obligation" subject to certain constraints. UAAL can also increase as the result of operation of a retiree health plan - e.g., as a result of plan changes or changes in actuarial assumptions. Finally, AAL can arise from actuarial gains and losses. Actuarial gains and losses result from differences between actuarial assumptions and actual plan experience.

Under GASB 43 and 45, employers have several options on how the UAAL can be amortized as follows:

- The employer can select an amortization period of 1 to 30 years. (For certain situations that result in a reduction of the AAL, the amortization period must be at least 10 years.)

- The employer may apply the same amortization period to the total combined UAAL or can apply different periods to different components of the UAAL.

- The employer may elect a “closed” or “open” amortization period.

- The employer may choose to amortize on a level dollar or level percentage of payroll method.
PART III: LIABILITIES AND COSTS FOR RETIREE BENEFITS

A. Introduction.

We calculated the actuarial present value of projected benefits (APVPB) separately for each employee. We determined eligibility for retiree benefits based on information supplied by Sierra CCD. We then selected assumptions for the factors discussed in the above Section that, based on plan experience and our training and experience, represent our best prediction of future plan experience. For each employee, we applied the appropriate factors based on the employee's age, sex and length of service.

We summarized actuarial assumptions used for this study in Appendix C.

B. Medicare

The extent of Medicare coverage can affect projections of retiree health costs. The method of coordinating Medicare benefits with the retiree health plan’s benefits can have a substantial impact on retiree health costs. We will be happy to provide more information about Medicare integration methods if requested.

C. Liability for Retiree Benefits.

For each employee, we projected future premium costs using an assumed trend rate (see Appendix C).

We multiplied each year's projected cost by the probability that premium will be paid; i.e. based on the probability that the employee is living, has not terminated employment and has retired. The probability that premium will be paid is zero if the employee is not eligible. The employee is not eligible if s/he has not met minimum service, minimum age or, if applicable, maximum age requirements.

The product of each year's premium cost and the probability that premium will be paid equals the expected cost for that year. We discounted the expected cost for each year to the valuation date July 1, 2016 at 6.5% interest.

Finally, we multiplied the above discounted expected cost figures by the probability that the retiree would elect coverage. A retiree may not elect to be covered if retiree health coverage is available less expensively from another source (e.g. Medicare risk contract) or the retiree is covered under a spouse's plan.

For any current retirees, the approach used was similar. The major difference is that the probability of payment for current retirees depends only on mortality and age restrictions (i.e. for retired employees the probability of being retired and of not being terminated are always both 1.0000).

We added the APVPB for all employees to get the actuarial present value of total projected benefits (APVTPB). The APVTPB is the estimated present value of all future retiree health benefits for all current employees and retirees. The APVTPB is the amount on July 1, 2016 that, if all actuarial assumptions are exactly right, would be sufficient to expense all promised benefits until the last current employee or retiree dies or reaches the maximum eligibility age.
Actuarial Present Value of Total Projected Benefits at July 1, 2016

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<td>Grand Total</td>
<td>$43,733,038</td>
<td>$23,997,308</td>
<td>$18,875,249</td>
<td>$860,481</td>
</tr>
<tr>
<td>Subtotal Pre-65</td>
<td>$2,802,019</td>
<td>$956,838</td>
<td>$1,648,869</td>
<td>$196,312</td>
</tr>
<tr>
<td>Subtotal Post-65</td>
<td>$40,931,019</td>
<td>$23,040,470</td>
<td>$17,226,380</td>
<td>$664,169</td>
</tr>
</tbody>
</table>

The APVTPB should be accrued over the working lifetime of employees. At any time much of it has not been “earned” by employees. The APVTPB is used to develop expense and liability figures. To do so, the APVTFB is divided into two parts: the portions attributable to service rendered prior to the valuation date (the past service liability or actuarial accrued liability under GASB 43 and 45) and to service after the valuation date but prior to retirement (the future service liability).

The past service and future service liabilities are each funded in a different way. We will start with the future service liability which is funded by the normal cost.

D. Cost to Prefund Retiree Benefits

1. Normal Cost

The average hire age for eligible employees is 31. To accrue the liability by retirement, the District would accrue the retiree liability over a period of about 29 years (assuming an average retirement age of 60). We applied an "entry age normal" actuarial cost method to determine funding rates for active employees. The table below summarizes the calculated normal cost.

Normal Cost Year Beginning July 1, 2016

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Certificated</th>
<th>Classified</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Employees</td>
<td>53</td>
<td>21</td>
<td>27</td>
<td>5</td>
</tr>
<tr>
<td>Per Capita Normal Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-65 Benefit</td>
<td>N/A</td>
<td>$1,278</td>
<td>$854</td>
<td>$684</td>
</tr>
<tr>
<td>Post-65 Benefit</td>
<td>N/A</td>
<td>$3,507</td>
<td>$1,647</td>
<td>$0</td>
</tr>
<tr>
<td>First Year Normal Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-65 Benefit</td>
<td>$53,316</td>
<td>$26,838</td>
<td>$23,058</td>
<td>$3,420</td>
</tr>
<tr>
<td>Post-65 Benefit</td>
<td>$118,116</td>
<td>$73,647</td>
<td>$44,469</td>
<td>$0</td>
</tr>
<tr>
<td>Total</td>
<td>$171,432</td>
<td>$100,485</td>
<td>$67,527</td>
<td>$3,420</td>
</tr>
</tbody>
</table>

Accruing retiree health benefit costs using normal costs levels out the cost of retiree health benefits over time and more fairly reflects the value of benefits "earned" each year by employees. This normal cost would increase each year based on covered payroll.
2. Amortization of Unfunded Actuarial Accrued Liability (UAAL)

If actuarial assumptions are borne out by experience, the District will fully accrue retiree benefits by expensing an amount each year that equals the normal cost. If no accruals had taken place in the past, there would be a shortfall of many years' accruals, accumulated interest and forfeitures for terminated or deceased employees. This shortfall is called the actuarial accrued liability (AAL). We calculated the AAL as the APVTPB minus the present value of future normal costs.

The initial UAAL was amortized using level dollar, closed 30 year amortization. The District can amortize the remaining or residual UAAL over many years. The table below shows the annual amount necessary to amortize the UAAL over a period of 22 years at 6.5% interest. (Thirty years is the longest amortization period allowable under GASB 43 and 45.) GASB 43 and 45 allow amortizing the UAAL using either payments that stay the same as a dollar amount, or payments that are a flat percentage of covered payroll over time. The figures below reflect level dollar, open 22 year amortization.

### Actuarial Accrued Liability as of July 1, 2016

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Certificated</th>
<th>Classified</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active: Pre-65</td>
<td>$1,175,244</td>
<td>$329,778</td>
<td>$665,749</td>
<td>$179,717</td>
</tr>
<tr>
<td>Post-65</td>
<td>$6,336,624</td>
<td>$2,745,109</td>
<td>$2,927,346</td>
<td>$664,169</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$7,511,868</td>
<td>$3,074,887</td>
<td>$3,593,095</td>
<td>$843,886</td>
</tr>
<tr>
<td>Retiree: Pre-65</td>
<td>$1,521,164</td>
<td>$595,302</td>
<td>$925,862</td>
<td>$0</td>
</tr>
<tr>
<td>Post-65</td>
<td>$34,396,821</td>
<td>$20,208,214</td>
<td>$14,188,607</td>
<td>$0</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$35,917,985</td>
<td>$20,803,516</td>
<td>$15,114,469</td>
<td>$0</td>
</tr>
<tr>
<td>Subtot Pre-65</td>
<td>$2,696,408</td>
<td>$925,080</td>
<td>$1,591,611</td>
<td>$179,717</td>
</tr>
<tr>
<td>Subtot Post-65</td>
<td>$40,733,445</td>
<td>$22,953,323</td>
<td>$17,115,953</td>
<td>$664,169</td>
</tr>
<tr>
<td>Grand Total</td>
<td>$43,429,853</td>
<td>$23,878,403</td>
<td>$18,707,564</td>
<td>$843,886</td>
</tr>
<tr>
<td>Unamortized Initial UAAL</td>
<td>$51,473,769</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plan assets at 6/30/16</td>
<td>$10,356,205</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual UAAL</td>
<td>($18,400,121)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual UAAL Amortization at 6.5% over 22 Years</td>
<td>($1,595,129)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Annual Required Contributions (ARC)

If the District determines retiree health plan expenses in accordance with GASB 43 and 45, costs include both normal cost and one or more components of UAAL amortization costs. The sum of normal cost and UAAL amortization costs is called the Annual Required Contribution (ARC) and is shown below.

### Annual Required Contribution (ARC) Year Beginning July 1, 2016

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Cost</td>
<td>$171,432</td>
</tr>
<tr>
<td>Initial UAAL Amortization</td>
<td>$4,462,323</td>
</tr>
<tr>
<td>Residual UAAL Amortization</td>
<td>($1,595,129)</td>
</tr>
<tr>
<td>ARC</td>
<td>$3,038,626</td>
</tr>
</tbody>
</table>

The normal cost remains as long as there are active employees who may some day qualify for District-paid
Total Compensation Systems, Inc.

retiree health benefits. This normal cost would increase each year based on covered payroll.

4. Other Components of Annual OPEB Cost (AOC)

Expense and liability amounts may include more components of cost than the normal cost plus amortization of the UAAL. This applies to employers that don’t fully fund the Annual Required Contribution (ARC) through an irrevocable trust.

- The annual OPEB cost (AOC) includes assumed interest on the net OPEB obligation (NOO). The annual OPEB cost also includes an amortization adjustment for the net OPEB obligation. (It should be noted that there is no NOO if the ARC is fully funded through a qualifying “plan”.)

- The net OPEB obligation equals the accumulated differences between the (AOC) and qualifying “plan” contributions.
PART IV: "PAY AS YOU GO" FUNDING OF RETIREE BENEFITS

We used the actuarial assumptions shown in Appendix C to project twenty five year cash flow under the retiree health program. Because these cash flow estimates reflect average assumptions applied to a relatively small number of employees, estimates for individual years are certain to be inaccurate. However, these estimates show the size of cash outflow.

The following table shows a projection of annual amounts needed to pay the District share of retiree health premiums.

<table>
<thead>
<tr>
<th>Year Beginning July 1</th>
<th>Total</th>
<th>Certificated</th>
<th>Classified</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>$3,009,421</td>
<td>$1,793,550</td>
<td>$1,213,587</td>
<td>$2,284</td>
</tr>
<tr>
<td>2017</td>
<td>$3,055,708</td>
<td>$1,826,157</td>
<td>$1,224,983</td>
<td>$4,568</td>
</tr>
<tr>
<td>2018</td>
<td>$3,153,535</td>
<td>$1,872,542</td>
<td>$1,270,990</td>
<td>$10,003</td>
</tr>
<tr>
<td>2019</td>
<td>$3,231,164</td>
<td>$1,907,588</td>
<td>$1,306,938</td>
<td>$16,638</td>
</tr>
<tr>
<td>2020</td>
<td>$3,300,809</td>
<td>$1,934,116</td>
<td>$1,343,183</td>
<td>$23,510</td>
</tr>
<tr>
<td>2021</td>
<td>$3,349,157</td>
<td>$1,950,353</td>
<td>$1,368,460</td>
<td>$30,344</td>
</tr>
<tr>
<td>2022</td>
<td>$3,396,681</td>
<td>$1,956,731</td>
<td>$1,402,312</td>
<td>$37,638</td>
</tr>
<tr>
<td>2023</td>
<td>$3,421,507</td>
<td>$1,954,358</td>
<td>$1,422,000</td>
<td>$45,149</td>
</tr>
<tr>
<td>2024</td>
<td>$3,429,526</td>
<td>$1,943,251</td>
<td>$1,433,530</td>
<td>$52,745</td>
</tr>
<tr>
<td>2025</td>
<td>$3,420,588</td>
<td>$1,923,430</td>
<td>$1,438,005</td>
<td>$59,153</td>
</tr>
<tr>
<td>2026</td>
<td>$3,406,542</td>
<td>$1,895,875</td>
<td>$1,445,545</td>
<td>$65,122</td>
</tr>
<tr>
<td>2027</td>
<td>$3,372,139</td>
<td>$1,861,666</td>
<td>$1,440,305</td>
<td>$70,168</td>
</tr>
<tr>
<td>2028</td>
<td>$3,331,173</td>
<td>$1,820,583</td>
<td>$1,436,710</td>
<td>$73,880</td>
</tr>
<tr>
<td>2029</td>
<td>$3,280,486</td>
<td>$1,773,987</td>
<td>$1,428,651</td>
<td>$77,848</td>
</tr>
<tr>
<td>2030</td>
<td>$3,218,049</td>
<td>$1,721,430</td>
<td>$1,416,484</td>
<td>$80,135</td>
</tr>
<tr>
<td>2031</td>
<td>$3,151,996</td>
<td>$1,663,813</td>
<td>$1,404,884</td>
<td>$83,299</td>
</tr>
<tr>
<td>2032</td>
<td>$3,072,427</td>
<td>$1,601,093</td>
<td>$1,385,061</td>
<td>$86,273</td>
</tr>
<tr>
<td>2033</td>
<td>$2,988,436</td>
<td>$1,533,499</td>
<td>$1,365,891</td>
<td>$89,046</td>
</tr>
<tr>
<td>2034</td>
<td>$2,896,036</td>
<td>$1,461,513</td>
<td>$1,342,830</td>
<td>$91,693</td>
</tr>
<tr>
<td>2035</td>
<td>$2,796,212</td>
<td>$1,386,374</td>
<td>$1,315,629</td>
<td>$94,209</td>
</tr>
<tr>
<td>2036</td>
<td>$2,688,711</td>
<td>$1,308,100</td>
<td>$1,284,046</td>
<td>$96,565</td>
</tr>
<tr>
<td>2037</td>
<td>$2,574,193</td>
<td>$1,227,550</td>
<td>$1,247,871</td>
<td>$98,772</td>
</tr>
<tr>
<td>2038</td>
<td>$2,453,419</td>
<td>$1,145,730</td>
<td>$1,206,892</td>
<td>$100,797</td>
</tr>
<tr>
<td>2039</td>
<td>$2,326,592</td>
<td>$1,063,001</td>
<td>$1,160,981</td>
<td>$102,610</td>
</tr>
<tr>
<td>2040</td>
<td>$2,195,070</td>
<td>$980,698</td>
<td>$1,110,193</td>
<td>$104,179</td>
</tr>
</tbody>
</table>
PART V: RECOMMENDATIONS FOR FUTURE VALUATIONS

To effectively manage benefit costs, an employer must periodically examine the existing liability for retiree benefits as well as future annual expected premium costs. GASB 43/45 require biennial valuations. In addition, a valuation should be conducted whenever plan changes, changes in actuarial assumptions or other employer actions are likely to cause a material change in accrual costs and/or liabilities.

Following are examples of actions that could trigger a new valuation.

- An employer should perform a valuation whenever the employer considers or puts in place an early retirement incentive program.
- An employer should perform a valuation whenever the employer adopts a retiree benefit plan for some or all employees.
- An employer should perform a valuation whenever the employer considers or implements changes to retiree benefit provisions or eligibility requirements.
- An employer should perform a valuation whenever the employer introduces or changes retiree contributions.

We recommend Sierra CCD take the following actions to ease future valuations.

- We have used our training, experience and information available to us to establish the actuarial assumptions used in this valuation. We have no information to indicate that any of the assumptions do not reasonably reflect future plan experience. However, the District should review the actuarial assumptions in Appendix C carefully. If the District has any reason to believe that any of these assumptions do not reasonably represent the expected future experience of the retiree health plan, the District should engage in discussions or perform analyses to determine the best estimate of the assumption in question.
PART VI: APPENDICES

APPENDIX A: MATERIALS USED FOR THIS STUDY

We relied on the following materials to complete this study.

- We used paper reports and digital files containing employee demographic data from the District personnel records.
- We used relevant sections of collective bargaining agreements provided by the District.
APPENDIX B: EFFECT OF ASSUMPTIONS USED IN CALCULATIONS

While we believe the estimates in this study are reasonable overall, it was necessary for us to use assumptions which inevitably introduce errors. We believe that the errors caused by our assumptions will not materially affect study results. If the District wants more refined estimates for decision-making, we recommend additional investigation. Following is a brief summary of the impact of some of the more critical assumptions.

1. Where actuarial assumptions differ from expected experience, our estimates could be overstated or understated. One of the most critical assumptions is the medical trend rate. The District may want to commission further study to assess the sensitivity of liability estimates to our medical trend assumptions. For example, it may be helpful to know how liabilities would be affected by using a trend factor 1% higher than what was used in this study. There is an additional fee required to calculate the impact of alternative trend assumptions.

2. We used an "entry age normal" actuarial cost method to estimate the actuarial accrued liability and normal cost. GASB allows this as one of several permissible methods under GASB45. Using a different cost method could result in a somewhat different recognition pattern of costs and liabilities.
APPENDIX C: ACTUARIAL ASSUMPTIONS AND METHODS

Following is a summary of actuarial assumptions and methods used in this study. The District should carefully review these assumptions and methods to make sure they reflect the District's assessment of its underlying experience. It is important for Sierra CCD to understand that the appropriateness of all selected actuarial assumptions and methods are Sierra CCD’s responsibility. Unless otherwise disclosed in this report, TCS believes that all methods and assumptions are within a reasonable range based on the provisions of GASB 43 and 45, applicable actuarial standards of practice, Sierra CCD’s actual historical experience, and TCS’s judgment based on experience and training.

ACTUARIAL METHODS AND ASSUMPTIONS:

**ACTUARIAL COST METHOD:** Entry age normal. The allocation of OPEB cost is based on years of service. We used the level percentage of payroll method to allocate OPEB cost over years of service.

Entry age is based on the age at hire for eligible employees. The attribution period is determined as the difference between the expected retirement age and the age at hire. The present value of future benefits and present value of future normal costs are determined on an employee by employee basis and then aggregated.

To the extent that different benefit formulas apply to different employees of the same class, the normal cost is based on the benefit plan applicable to the most recently hired employees (including future hires if a new benefit formula has been agreed to and communicated to employees).

**AMORTIZATION METHODS:** We used a level dollar, closed 30 year amortization period for the initial UAAL. We used a level dollar, open 22 year amortization period for any residual UAAL.

**SUBSTANTIVE PLAN:** As required under GASB 43 and 45, we based the valuation on the substantive plan. The formulation of the substantive plan was based on a review of written plan documents as well as historical information provided by Sierra CCD regarding practices with respect to employer and employee contributions and other relevant factors.
**ECONOMIC ASSUMPTIONS:**
Economic assumptions are set under the guidance of Actuarial Standard of Practice 27 (ASOP 27). Among other things, ASOP 27 provides that economic assumptions should reflect a consistent underlying rate of general inflation. For that reason, we show our assumed long-term inflation rate below.

**INFLATION:** We assumed 2.75% per year.

**INVESTMENT RETURN / DISCOUNT RATE:** We assumed 6.5% per year. This is based on assumed long-term return on plan assets assuming 100% funding through Futuris. We used the “Building Block Method” as described in ASOP 27 Paragraph 3.6.2.

**TREND:** We assumed 4% per year. Our long-term trend assumption is based on the conclusion that, while medical trend will continue to be cyclical, the average increase over time cannot continue to outstrip general inflation by a wide margin. Trend increases in excess of general inflation result in dramatic increases in unemployment, the number of uninsured and the number of underinsured. These effects are nearing a tipping point which will inevitably result in fundamental changes in health care finance and/or delivery which will bring increases in health care costs more closely in line with general inflation. We do not believe it is reasonable to project historical trend vs. inflation differences several decades into the future.

**PAYROLL INCREASE:** We assumed 2.75% per year. This assumption applies only to the extent that either or both of the normal cost and/or UAAL amortization use the level percentage of payroll method. For purposes of applying the level percentage of payroll method, payroll increase must not assume any increases in staff or merit increases.

**ACTUARIAL VALUE OF PLAN ASSETS (AVA):** Because plan assets are primarily short term, we did not use a smoothing formula.
NON-ECONOMIC ASSUMPTIONS:
Economic assumptions are set under the guidance of Actuarial Standard of Practice 35 (ASOP 35).

MORTALITY

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>Mortality Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>2009 CalSTRS Mortality</td>
</tr>
<tr>
<td>Classified</td>
<td>2014 CalPERS Active Mortality for Miscellaneous Employees</td>
</tr>
</tbody>
</table>

RETIREMENT RATES

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>Retirement Rate Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>2009 CalSTRS Retirement Rates</td>
</tr>
<tr>
<td>Classified</td>
<td>2009 CalPERS Retirement Rates for School Employees</td>
</tr>
</tbody>
</table>

VESTING RATES

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>Vesting Rate Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>100% at 12 Years of Service</td>
</tr>
<tr>
<td>Classified</td>
<td>100% at 15 Years of Service</td>
</tr>
<tr>
<td>Management</td>
<td>100% at 12 Years of Service</td>
</tr>
</tbody>
</table>

COSTS FOR RETIREE COVERAGE
Retiree liabilities are based on actual retiree costs plus an implicit rate subsidy of 14.6% of non-Medicare medical premium. Liabilities for active participants are based on the first year costs shown below. Subsequent years’ costs are based on first year costs adjusted for trend and limited by any District contribution caps.

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>Future Retirees Pre-65</th>
<th>Future Retirees Post-65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>$10,466</td>
<td>$10,382</td>
</tr>
<tr>
<td>Classified</td>
<td>$10,927</td>
<td>$8,297</td>
</tr>
<tr>
<td>Management</td>
<td>$10,927</td>
<td>$10,382</td>
</tr>
</tbody>
</table>

PARTICIPATION RATES

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>&lt;65 Non-Medicare Participation %</th>
<th>65+ Medicare Participation %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Classified</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

TURNOVER

<table>
<thead>
<tr>
<th>Employee Type</th>
<th>Turnover Rate Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificated</td>
<td>2009 CalSTRS Termination Rates</td>
</tr>
<tr>
<td>Classified</td>
<td>2009 CalPERS Termination Rates for School Employees</td>
</tr>
</tbody>
</table>

SPOUSE PREVALENCE
To the extent not provided and when needed to calculate benefit liabilities, 80% of retirees assumed to be married at retirement. After retirement, the percentage married is adjusted to reflect mortality.

SPOUSE AGES
To the extent spouse dates of birth are not provided and when needed to calculate benefit liabilities, female spouse assumed to be three years younger than male.
**AGING FACTORS**

<table>
<thead>
<tr>
<th>Attained Age</th>
<th>Medical Annual Increases</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-64</td>
<td>3.5%</td>
</tr>
<tr>
<td>65-69</td>
<td>3.0%</td>
</tr>
<tr>
<td>70-74</td>
<td>2.5%</td>
</tr>
<tr>
<td>75-79</td>
<td>1.5%</td>
</tr>
<tr>
<td>80-84</td>
<td>0.5%</td>
</tr>
<tr>
<td>85+</td>
<td>0.0%</td>
</tr>
</tbody>
</table>
APPENDIX D: DISTRIBUTION OF ELIGIBLE PARTICIPANTS BY AGE

ELIGIBLE ACTIVE EMPLOYEES

<table>
<thead>
<tr>
<th>Age</th>
<th>Total</th>
<th>Certificated</th>
<th>Classified</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>25-29</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>30-34</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>35-39</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>40-44</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>45-49</td>
<td>0</td>
<td>0</td>
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ELIGIBLE RETIREES

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APPENDIX E: CALCULATION OF GASB 43/45 ACCOUNTING ENTRIES

This report is to be used to calculate accounting entries rather than to provide the dollar amount of accounting entries. How the report is to be used to calculate accounting entries depends on several factors. Among them are:

1) The amount of prior accounting entries;

2) Whether individual components of the ARC are calculated as a level dollar amount or as a level percentage of payroll;

3) Whether the employer using a level percentage of payroll method elects to use for this purpose projected payroll, budgeted payroll or actual payroll;

4) Whether the employer chooses to adjust the numbers in the report to reflect the difference between the valuation date and the first fiscal year for which the numbers will be used.

To the extent the level percentage of payroll method is used, the employer should adjust the numbers in this report as appropriate to reflect the change in OPEB covered payroll. It should be noted that OPEB covered payroll should only reflect types of pay generating pension credits for plan participants. Please note that plan participants do not necessarily include all active employees eligible for health benefits for several reasons. Following are examples.

1) The number of hours worked or other eligibility criteria may differ for OPEB compared to active health benefits;

2) There may be active employees over the maximum age OPEB are paid through. For example, if an OPEB plan pays benefits only to Medicare age, any active employees currently over Medicare age are not plan participants;

3) Employees hired at an age where they will exceed the maximum age for benefits when the service requirement is met are also not plan participants.

Finally, GASB 43 and 45 require reporting covered payroll in RSI schedules regardless of whether any ARC component is based on the level percentage of payroll method. This report does not provide, nor should the actuary be relied on to report covered payroll.

GASB 45 Paragraph 26 specifies that the items presented as RSI "should be calculated in accordance with the parameters." The RSI items refer to Paragraph 25.c which includes annual covered payroll. Footnote 3 provides that when the ARC is based on covered payroll, the payroll measure may be the projected payroll, budgeted payroll or actual payroll. Footnote 3 further provides that comparisons between the ARC and contributions should be based on the same measure of covered payroll.

At the time the valuation is being done, the actuary may not know which payroll method will be used for reporting purposes. The actuary may not even know for which period the valuation will be used to determine the ARC. Furthermore, the actuary doesn’t know if the client will make adjustments to the ARC in order to use it for the first year of the biennial or triennial period. (GASB 45 is silent on this.) Even if the actuary were to know all of these things, it would be a rare situation that would result in knowing the appropriate covered payroll number
to report. For example, if the employer uses actual payroll, that number would not be known at the time the valuation is done.

As a result, we believe the proper approach is to report the ARC components as a dollar amount. It is the client's responsibility to turn this number into a percentage of payroll factor by using the dollar amount of the ARC (adjusted, if desired) as a numerator and then calculating the appropriate amount of the denominator based on the payroll determination method elected by the client for the appropriate fiscal year.

If we have been provided with payroll information, we are happy to use that information to help the employer develop an estimate of covered payroll for reporting purposes. However, the validity of the covered payroll remains the employer’s responsibility even if TCS assists the employer in calculating it.
APPENDIX F: GLOSSARY OF RETIREE HEALTH VALUATION TERMS

Note: The following definitions are intended to help a *non-*actuary understand concepts related to retiree health valuations. Therefore, the definitions may not be actuarially accurate.

**Actuarial Accrued Liability:** The amount of the actuarial present value of total projected benefits attributable to employees’ past service based on the actuarial cost method used.

**Actuarial Cost Method:** A mathematical model for allocating OPEB costs by year of service.

**Actuarial Present Value of Total Projected Benefits:** The projected amount of all OPEB benefits to be paid to current and future retirees discounted back to the valuation date.

**Actuarial Value of Assets:** Market-related value of assets which may include an unbiased formula for smoothing cyclical fluctuations in asset values.

**Annual OPEB Cost:** This is the amount employers must recognize as an expense each year. The annual OPEB expense is equal to the Annual Required Contribution plus interest on the Net OPEB obligation minus an adjustment to reflect the amortization of the net OPEB obligation.

**Annual Required Contribution:** The sum of the normal cost and an amount to amortize the unfunded actuarial accrued liability. This is the basis of the annual OPEB cost and net OPEB obligation.

**Closed Amortization Period:** An amortization approach where the original ending date for the amortization period remains the same. This would be similar to a conventional, 30-year mortgage, for example.

**Discount Rate:** Assumed investment return net of all investment expenses. Generally, a higher assumed interest rate leads to lower normal costs and actuarial accrued liability.

**Implicit Rate Subsidy:** The estimated amount by which retiree rates are understated in situations where, for rating purposes, retirees are combined with active employees.

**Mortality Rate:** Assumed proportion of people who die each year. Mortality rates always vary by age and often by sex. A mortality table should always be selected that is based on a similar “population” to the one being studied.

**Net OPEB Obligation:** The accumulated difference between the annual OPEB cost and amounts contributed to an irrevocable trust exclusively providing retiree OPEB benefits and protected from creditors.

**Normal Cost:** The dollar value of the “earned” portion of retiree health benefits if retiree health benefits are to be fully accrued at retirement.
| **OPEB Benefits:** | Other PostEmployment Benefits. Generally medical, dental, prescription drug, life, long-term care or other postemployment benefits that are not pension benefits. |
| **Open Amortization Period:** | Under an open amortization period, the remaining unamortized balance is subject to a new amortization schedule each valuation. This would be similar, for example, to a homeowner refinancing a mortgage with a new 30-year conventional mortgage every two or three years. |
| **Participation Rate:** | The proportion of retirees who elect to receive retiree benefits. A lower participation rate results in lower normal cost and actuarial accrued liability. The participation rate often is related to retiree contributions. |
| **Retirement Rate:** | The proportion of active employees who retire each year. Retirement rates are usually based on age and/or length of service. (Retirement rates can be used in conjunction with vesting rates to reflect both age and length of service). The more likely employees are to retire early, the higher normal costs and actuarial accrued liability will be. |
| **Transition Obligation:** | The amount of the unfunded actuarial accrued liability at the time actuarial accrual begins in accordance with an applicable accounting standard. |
| **Trend Rate:** | The rate at which the cost of retiree benefits is expected to increase over time. The trend rate usually varies by type of benefit (e.g. medical, dental, vision, etc.) and may vary over time. A higher trend rate results in higher normal costs and actuarial accrued liability. |
| **Turnover Rate:** | The rate at which employees cease employment due to reasons other than death, disability or retirement. Turnover rates usually vary based on length of service and may vary by other factors. Higher turnover rates reduce normal costs and actuarial accrued liability. |
| **Unfunded Actuarial Accrued Liability:** | This is the excess of the actuarial accrued liability over assets irrevocably committed to provide retiree health benefits. |
| **Valuation Date:** | The date as of which the OPEB obligation is determined. Under GASB 43 and 45, the valuation date does not have to coincide with the statement date. |
| **Vesting Rate:** | The proportion of retiree benefits earned, based on length of service and, sometimes, age. (Vesting rates are often set in conjunction with retirement rates.) More rapid vesting increases normal costs and actuarial accrued liability. |
SIERRA JOINT COMMUNITY COLLEGE DISTRICT
RETIREMENT BOARD OF AUTHORITY MEETING

Presented to: Retirement Board of Authority

Date: 07/20/2016

Subject: Retirement Board of Authority Comments

Item #: 2016/2017-005

Enclosure: No

Action Item: No

Prepared by: Keenan Financial Services

Requested by: Retirement Board of Authority

BACKGROUND:

Each member may report about various matters involving the Retirement Board of Authority.

RECOMMENDATION:

There will be no Retirement Board of Authority discussion except to ask questions or refer matters
BACKGROUND:

The Program Coordinator may address the Board of Authority on any matter pertaining to the Retirement Board of Authority that is not on the agenda.

RECOMMENDATION:

There will be no Retirement Board of Authority discussion except to ask questions or refer matters to staff, and no action will be taken unless listed on a subsequent agenda.
BACKGROUND:

Board members and visitors may suggest items for consideration at the next Retirement Board of Authority meeting.

RECOMMENDATION:

The Board will determine Agenda Items for the next meeting.