

#### RETIREMENT BOARD MEETING SECOND MONTHLY MEETING 9:00 a.m. March 27, 2013

Retirement Board Conference Room The Willows Office Park 1355 Willow Way, Suite 221 Concord, California

## THE RETIREMENT BOARD MAY DISCUSS AND TAKE ACTION ON THE FOLLOWING:

- 1. Pledge of Allegiance.
- 2. Accept comments from the public.
- 3. Presentation from The Segal Company on Actuarial Funding Policy.
- 4. Presentation from The Segal Company regarding projected five year employer contribution rates based on the changes to economic assumptions.
- 5. Consider and take possible action on request from First Five regarding payment of their Unfunded Actuarial Accrued Liability (UAAL).
- 6. Presentation from Institutional Shareholder Services on Proxy Voting Guidelines.
- 7. Consider and take possible action on staff recommendation for changes to Proxy Voting Guidelines.

#### **CLOSED SESSION**

- 8. The Board will go into closed session pursuant to Govt. Code Section 54956.9(a) to confer with legal counsel regarding existing litigation (two cases):
  - a. *Board of Retirement v. County of Contra Costa, et al.*, Alameda County Superior Court, Case No. RG11608520.
  - b. *Contra Costa County Deputy Sheriffs Association, et al., v. CCCERA, et al.,* Contra Costa County Superior Court, Case No. N12-1870.
- 9. The Board will confer with legal counsel in closed session pursuant to Govt. Code Section 54956.9(b)(1) (one case)

## OPEN SESSION

- 10. Miscellaneous
  - a. Staff Report
  - b. Outside Professionals' Report
  - c. Trustees' comments

The Retirement Board will provide reasonable accommodations for persons with disabilities planning to attend Board meetings who contact the Retirement Office at least 24 hours before a meeting,



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	MEETING DATE
	MAR 27 2013
	AGENDA ITEM
-	#3

VIA E-MAIL ONLY

March 20, 2013

Ms. Marilyn Leedom Chief Executive Officer Contra Costa County Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520

## Re: Contra Costa County Employees' Retirement Association Review and Discussion of Actuarial Funding Policy

Dear Marilyn:

We have prepared this discussion of the significant provisions that would comprise an Actuarial Funding Policy for CCCERA. This review incorporates CCCERA's current funding policy elements and reviews those policies in light of emerging model actuarial practice in this area. Here is a brief summary of our recommendations:

- > No change in actuarial cost method (Entry Age)
- > No change in asset smoothing method (5-year smoothing with no corridor)
- We recommend that the Board consider a change to the amortization periods used for plan amendments and for when the plan has a surplus (assets greater than liabilities).

Another consideration in undertaking this review relates to the Governmental Accounting Standards Board (GASB)'s recently adopted Statements No. 67 and 68 that substantially revise financial reporting requirements for governmental pension plans and their sponsors<sup>1</sup>. Included in those Statements is the requirement to describe and report the "actuarially determined (employer) contributions", based on the funding policy adopted by the governing body. One of the by-products of this review is that CCCERA will have a readily accessible comprehensive statement of funding policy to use in meeting the new GASB requirements.

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Statement 67 replaces Statement 25 for use in reporting by the pension plan and Statement 68 replaces Statement 27 for use in reporting by the plan sponsor. In the case of CCCERA, these new Statements will be effective for plan year 2014 for the Retirement Association and fiscal year 2014/2015 for the employers.

Please note that any recommended changes in funding policy are proposed for implementation in the December 31, 2012 actuarial valuation.

### **GENERAL FUNDING POLICY GOALS**

This report starts with a general discussion of pension plan funding policy followed by detailed discussion of specific policy components along with various policy recommendations. This discussion is based on the following high level funding policy goals:

- 1. Future contributions and current plan assets should be sufficient to provide for all benefits expected to be paid to current active, inactive and retired members. This means that contributions should include the cost of current service plus a series of payments to fully fund (or recognize) any unfunded (or overfunded) past service costs.
- 2. The funding policy should seek a reasonable allocation of the cost of benefits to the years of service and the funding of such cost by the employer. This includes the goal that annual contributions should, to the extent reasonably possible, maintain a close relationship to the cost of each year of service, and that the current service cost should bear a stable relationship to compensation.
- 3. The funding policy should seek to manage and control future employer contribution volatility to the extent reasonably possible, consistent with other policy goals.
- 4. The funding policy should support the general public policy goals of accountability and transparency. While these terms can be difficult to define in general, here the meaning includes that the funding policy should be clear both as to intent and effect, and that it should allow an assessment of whether, how and when the plan sponsor will meet the funding requirements of the plan.

Policy objectives 2 and 3 reflect two aspects of the general policy objective of "interperiod equity" (IPE). The "demographic matching" goal of policy objective 2 promotes *intergenerational* IPE, which seeks to have each generation of taxpayers incur the cost of benefits for the employees who provide services to those taxpayers, rather than deferring those costs to future taxpayers. The "volatility management" goal of policy objective 3 promotes *period-to-period* IPE, which seeks to have the cost incurred by taxpayers in any period compare equitably to the cost for the periods just before and after.

## **GENERAL DISCUSSION OF PENSION PLAN FUNDING POLICIES**

A pension plan funding policy is designed to determine how much should be contributed each year in total by the employer and the active members to provide for the secure funding of benefits in a systematic fashion. The funding policy starts with an actuarial cost method that allocates a portion of the total present value of the members' benefits to each year of service. In theory, contributing that "Normal Cost" for each year of service will be sufficient to fund all plan benefits, assuming that all actuarial assumptions are met including the assumed rate of investment return. In that ideal situation, plan assets will always be exactly equal to the value

today of all the past Normal Costs less benefit payments (the Actuarial Accrued Liability or AAL), and the current contribution will be only the current Normal Cost.

In practice, for a variety of reasons, the assets will be greater than or less than the AAL, leaving the plan overfunded (i.e., with a surplus) or underfunded (i.e., with an Unfunded Actuarial Accrued Liability or UAAL). The funding policy adjusts contributions to reflect any surplus or UAAL in a way that reduces short term, year-by-year volatility, but still assures that future contributions, together with current assets, will be enough to provide all future benefits.

A comprehensive funding policy is generally made up of three major components:

- I. An **actuarial cost method**, which allocates the total present value of future benefits to each year, including the current year (Normal Cost) and all past years (AAL).
- II. An **asset smoothing method**, which reduces the effect of short term market volatility while still tracking the overall movement of the market value of plan assets.
- III. An **amortization policy**, which determines the length of time and the structure of the payments for the contributions required to systematically pay off the plan's UAAL.

Each of these policy components is currently in effect for CCCERA. We are not recommending any change to the actuarial cost method or to the asset smoothing method (that was recently reviewed by the Board in 2009). We would recommend that the Board consider a change to the amortization periods used for plan amendments and for when the plan has a surplus. Accordingly, the next sections briefly review the first two major policy components, followed by a detailed discussion of the amortization policy.

### **ACTUARIAL COST METHOD**

The ultimate cost of the plan is determined by the actual benefits and expenses paid from the plan, offset by actual investment income. Each year, an actuarial valuation is completed to develop the next year's annual contribution for the pension plan. The valuation uses a funding method to allocate the ultimate expected costs for active members to each year of service, and thus among past service, current service, and future service. As described above, the cost attributed to the current year of service is the plan's Normal Cost. The accumulated costs attributed to past service is the plan's AAL. The plan's annual contribution is the Normal Cost, plus an amount to fund or "amortize" the plan's UAAL.

Currently, the plan is funded using the Entry Age Normal method<sup>2</sup>. This method is considered a reasonable funding method under the Actuarial Standards of Practice. Further, this method is most consistent with the policy goal of having the Normal Cost bear a consistent relationship to payroll. In fact, for that reason, the recently adopted GASB Statements require all plans to report their liabilities for accounting purposes using the Entry Age method.

<sup>2</sup> Recent guidance from both GASB and the California Actuarial Advisory Panel (CAAP) refer to this method as the Entry Age actuarial cost method. We will use that newer terminology throughout this discussion.

This method produces individual Normal Costs that are determined as a level percent of compensation over each member's career. The AAL is calculated on an individual basis and is based on each individual's past Normal Costs, allocated as a level percent of compensation.

CCCERA is currently using the individual Entry Age method which is the version of Entry Age method required under the recently adopted GASB Statements. Under this method, the Normal Cost and AAL for each of the cost groups is calculated by summing up the <u>individual</u> Normal Cost and AAL for each member covered in that cost group. Note that the Normal Cost rate would then be that total Normal Cost divided by the total compensation for that cost group. More information on the various Normal Cost and AAL cost sharing groups can be found later in this report under "Cost Sharing Arrangements".

We recommend that for funding purposes the Board continue to use the current Entry Age actuarial cost method.

## **ASSET SMOOTHING METHOD**

In 2009 the Board conducted a comprehensive review of the asset smoothing method. As a result of that review, the Board decided to maintain its 5-year asset smoothing period for all investment gains/losses and to continue the smoothing method without a Market Value of Assets (MVA) Corridor so that the Actuarial Value of Assets (AVA) would not be constrained to be within a certain range of the MVA.

This decision was made after detailed discussions of the impact of different MVA corridors in developing the AVA, as detailed in our formal report from March 2009 as well as subsequent presentations. That decision was based in part on the fact that the 5-year asset smoothing period currently used by the Board is still the industry standard and is by far the most common period used by public plans. That 5-year period, in our opinion, also meets the Actuarial Standard of Practice standard of being "sufficiently short," which allows the Board substantial flexibility in setting the MVA Corridor, including having no MVA Corridor. For those reasons, we believe it is reasonable for the Board to continue the asset smoothing policy reaffirmed in 2009.

One observation we have made is that a period of significant market change may be followed by a period of market correction. Depending on the magnitude of the market change and subsequent market correction, it may be advisable to perform an ad-hoc adjustment to change the pattern of the recognition of the deferred investment gains or losses. We would recommend to the Board that the Statement of Funding Policy reserve to the Board the right to consider such future adjustments upon receiving the necessary analysis from its actuary. The funding policy could also describe in general terms the conditions that would typically lead to such an ad-hoc adjustment.

#### **AMORTIZATION POLICY**

#### **General Discussions**

With few exceptions, such as that the UAAL has to be amortized over a period not to exceed 30 years under Section 31453.5 of the 1937 CERL<sup>3</sup>, governmental or public defined benefit plans like CCCERA are not subject to specific statutory funding or funding policy requirements such as those established for single employer (corporate) and multiemployer (Taft-Hartley) defined benefit pension plans under the Employee Retirement Income Security Act (ERISA) and the Internal Revenue Code (IRC). The prior accounting standards promulgated by GASB define an Annual Required Contribution (ARC) that, despite its name, is actually the amount of expense that the employer must recognize each year. Also, the prior GASB accounting standards provide considerable policy latitude when determining the ARC<sup>4</sup>.

Even though this leaves governmental or public plans relatively free to set funding policy, it is worth noting that all long term funding policy structures – corporate, multiemployer and GASB – take the same form, at least for underfunded plans (plans with a UAAL):

- 1. Contribute the Normal Cost for the year, and
- 2. Contribute an additional amount that will fully fund ("amortize") any UAAL over a period of years.

Implicit in this form of policy is *a funding target of 100 percent*, since at the end of the amortization period the plan will be fully funded. This is in contrast to "corridor" or "collar" methods that allow contributions equal to only the Normal Cost as long as the plan is within, for example, 10 percent of being fully funded. The funding policy presented in this discussion is based on the UAAL amortization method because it targets 100 percent funding of the AAL, and accordingly is well established for all types of pension plans.

For CCCERA, the UAAL amortization policy was last reviewed in March 2009 for the December 31, 2008 valuation. As a result of that review, any future sources of UAAL are amortized over 18 years.

A general review of the UAAL amortization policy would include both the amortization periods and the structure of the amortization payments. A detailed discussion of the selection of the UAAL amortization period and structure is presented in the following sections. For now,

<sup>&</sup>lt;sup>3</sup> Note that Section 7522.52 was recently enacted as part of the California Public Employees' Pension Reform Act (PEPRA) of 2013. Under that Section of the Act, a public pension plan has to have at least a 120% funded ratio, and meet other conditions, before any negative UAAL (i.e., surplus) may be amortized and used to reduce the Normal Cost of the plan.

<sup>&</sup>lt;sup>4</sup> As previously discussed, GASB has recently adopted Statements 67 and 68 that replace Statements 25 and 27 for accounting and financial reporting standards for governmental pension plans. The new standards eliminate the linkage between actuarial funding and financial reporting found in the prior standards. In this discussion, unless noted otherwise, all references to GASB standards relate to the prior standards, which were viewed as an authoritative guide to the range and limits of funding policy practices used by most public plans before GASB adopted the new reporting standards.

we note only that for plans with a UAAL, longer amortization periods result in lower current contributions and a longer period before the contribution reverts to the Normal Cost. Longer periods also produce lower contribution volatility. In contrast, shorter amortization periods get to full funding more rapidly but at the price of higher current contributions and higher contribution volatility.

That leaves the question of funding policy for overfunded plans, those that have a surplus instead of a UAAL. The policy structure used by most public plans when determining contribution amounts when there is a surplus is that the surplus is amortized the same way as a UAAL, except that instead of producing an amortization *charge*, there is an amortization *credit*. This means that the contribution amount would be the Normal Cost *minus* an amount that will in effect spend down the surplus over the amortization period.

Unlike for UAAL, longer amortization periods now result in a lower amortization credit, and so produce a higher current contribution (but still less than the Normal Cost). Shorter amortization periods for surplus take credit for the surplus more quickly. This produces a lower contribution, but it also means a shorter period before the contribution reverts up to the full Normal Cost.

While this policy structure still reflects a funding target of 100 percent, amortizing surplus results in an annual contribution that is less than the Normal Cost. This can lead to a full or partial "contribution holiday" where contributions are less than the regular, ongoing cost of current service, especially if the surplus amortization period is relatively short. Recent history has led to a reevaluation of this condition for public pension plans. This subject is discussed in more detail below, in the section on "Amortization of Surplus".

#### Selection of Amortization Structure and Methods

Setting an amortization policy involves a few policy decisions and considerations in addition to selecting the amortization periods. Here is a brief description of those issues, followed by a detailed discussion of amortization periods. That discussion includes the current CCCERA UAAL amortization policy elements and some possible changes that may be considered by the Board.

- > Single amortization layer for the entire UAAL or surplus, or separate amortization layers for each source of UAAL or surplus.
- > Closed (fixed) period amortization or open (rolling) period amortization.
- > Level dollar or level percent of pay amortization payments.
- For separate amortization layers, when is it appropriate to "restart" or otherwise combine the amortization layers.

The current CCCERA policy uses separate, fixed period amortization layers for each source of UAAL and level percent of pay amortization payments.

#### Single vs. Multiple layers, Fixed vs. Rolling amortization

Historically many public pension systems amortized their UAAL as a single amount. Because new amounts of UAAL arise each year (due to gains and losses, assumption changes and plan amendments) this requires a policy choice as to how to determine the remaining amortization period each year.

A "closed" or fixed period works like a home mortgage and so gets shorter each year. However, unlike a home mortgage, for a pension plan this eventually leads to an unstable situation where each year's gain or loss (or other UAAL changes due to assumption or benefit changes) is amortized over a shorter and shorter period. Eventually the policy needs to be amended to restart the amortization period at something like its original period.

To avoid this need to periodically revisit the policy, some systems use an "open" or rolling amortization period. This is analogous to refinancing your home mortgage each year, but including any new UAALs arising each year. While this is a stable policy it also means that there is no date by which the UAAL is fully amortized, which raises questions of accountability and intergenerational equity.

To address both the stability and the accountability issues, many public systems (including CCCERA) have adopted the "layered" approach used by all corporate and multiemployer pension plans. Here each new amount of UAAL is amortized over a separate, fixed period. This approach also has the advantage of identifying the source of each dollar of current UAAL, as well as when each portion of UAAL will be fully amortized.

In March 2009, the Board of Retirement elected to continue to amortize the outstanding balance of the December 31, 2007 UAAL over a declining 15-year period. The Board also elected to amortize any additional amounts of UAAL, as determined in each subsequent actuarial valuation, over separate 18-year periods. As noted above, these additional amounts generally arise from (1) actuarial experience (gains and losses), (2) assumption or method changes, or (3) plan amendments and other changes in member benefits.

As described above, the layered approach adopted by CCCERA provides reassurance that any past UAAL will be paid off at a specific time (i.e., 18 years). It also shows when and how each new separate portion of underfunding originated and how much of each such original amount of UAAL remains to be amortized. It also allows for flexibility to allow underfunding from different sources to be amortized over different periods of time. We note that this is the structure required by the ERISA/IRC rules for corporate and multiemployer plans, and is increasingly common for public pension plans, especially in California.

Based on all of the above, we recommend no changes to CCCERA's current use of separate, fixed period amortization layers.

## Level Dollar vs. Level Percent of Pay Amortization

The amortization payments may be patterned in one of two ways, as a level dollar amount or as a level percentage of pay. The ERISA/IRC rules for corporate and multiemployer plans require level dollar amortization, similar to a typical home mortgage. However, by far most public plans use level percent of pay amortization where the payments increase each year in proportion to the assumed payroll growth for the entire active workforce. That means they start lower than the corresponding level dollar payments, but then increase until they are higher.

The level dollar method is more conservative in that it funds the UAAL faster in the early years. For the same reason, it also incurs less interest cost over the amortization period.

The current CCCERA policy uses level percent of pay amortization. The justification for using level percent of pay payments is that it is consistent with the Normal Cost (which for pay related plans like CCCERA is almost always determined as a percentage of pay) and that it provides a total cost that remains level as a percentage of pay. In contrast, level dollar amortization of UAAL will produce a total cost that decreases as a percentage of pay over the amortization period. Note that both these results depend on actual payroll growth meeting the assumed payroll growth assumptions.

We recommend no change to CCCERA's current use of level percent of pay amortization.

#### Negative Amortization

Another important aspect of level percent of pay amortization is that, unlike a level dollar amortization, under level percent of pay amortization the UAAL may increase during the early years of the amortization period even though contributions are being made to amortize the UAAL. This happens because with level percent of pay amortization, the lower early payments can actually be less than interest on the outstanding balance, so that the outstanding balance increases instead of decreases. For typical public plan assumptions (including CCCERA), this happens whenever the amortization period is longer than about 18 years. This means that the outstanding balance of the UAAL does not decrease until there are 18 or fewer years left in the amortization period. It also means that the outstanding balance will not fall below the original amount until some years after that time.

A comparison of the contributions under level percent of payroll amortization using different amortization periods is provided in Attachment 1. Attachment 2 shows the resulting UAAL balances for a sample starting UAAL layer of \$1 million under various level percent of pay amortization periods. While there is nothing inherently wrong with negative amortization, the Board should be aware of its consequences, especially for amortization periods <u>substantially</u> longer than 18 years. We understand that based on the previous action taken in March 2009 the Board intends to use an amortization period that has no negative amortization.

### When is it Appropriate to "Restart" the Amortization Layers?

Unless the Board intends to substantially accelerate CCCERA's progress to 100% funding through increased employer contributions, Segal recommends that CCCERA continue to amortize its current UAAL of \$1.49 billion as of December 31, 2011 in layers over the current respective remaining fixed periods. As discussed earlier, any new increases or decreases in underfunding would be amortized over separate layers each with its own fixed amortization period.

Under the recommended amortization policy, there may be conditions where the Board would want to consider action whereby all the amortization layers are wiped out ("considered fully amortized") and the series is restarted. For example, this would very likely be appropriate when the plan goes from surplus to UAAL, or from UAAL to surplus. This would be done to avoid possible anomalies that can arise from using layered amortiation.

In particular, under the layered approach, it is possible for a plan with a UAAL to nevertheless have a net amortization credit in the current year. While that result is actuarially consistent it is also very counterintuitive, since a UAAL would seem to require a net amortization charge. In this situation, the Board should consider combining all the UAAL layers and restarting the amortization.

The above is only one example of when the amortization layers might be restarted or combined. Another is when there are alternating years of gains and losses of relatively equal size. To address these situations as part of its funding policy, the Board should reserve the right to restart or otherwise combine the amortization layers whenever appropriate circumstances arise. In particular, we recommend that all amortization layers be restarted whenever the plan switches from an underfunded position to surplus or vice versa.

#### Amortization Periods

The UAAL amortization periods for public plans typically range from 15 to 30 years, with 30 years being the maximum allowable period under the prior GASB accounting standards. As discussed above under "General Funding Policy Goals", the amortization period should not be set so short that it creates too much volatility in the contributions yet it should not be so long that it constitutes a shift of cost to future funding sources. Balancing these two conflicting policy goals is a key consideration when setting amortization periods. Another consideration is how much and in what circumstances negative amortization is an acceptable consequence of using longer amortization periods.

Plans that amortize the UAAL in layers by source sometimes use different amortization periods for different sources of UAAL. Generally such plans amortize actuarial gains or losses over shorter periods (15 to 20 years or less) and UAAL changes due to assumption or method changes and plan amendments over longer periods (sometimes up to the 30-year GASB limit). We will discuss that further in the following sections.

## Selection of Amortization Periods for Actuarial Gains or Losses

When selecting the amortization period for gains or losses, a review of both historical practices and recent experience is instructive. For amortizing actuarial gains or losses, a 15-year amortization period has been used in the ERISA/IRC rules for multiemployer plans and also for corporate plans prior to the 1987 overhaul of the corporate pension funding rules. Public plans also generally used 15 years or longer, often for the entire UAAL including any gains or losses. By the late 1990s, as plans came close to being fully funded or even overfunded there was a trend toward amortization periods as short as 10 or even 5 years. For example, in 1987, the ERISA/IRC rules for corporate plans were changed to reduce the amortization period for gains and losses from the original 15 years to 5 years. This led to rapid reductions in contributions when the large investment gains from that period were recognized over such short periods. The investment losses in the early 2000s led to similar cost increases except for public plans that lengthened their amortization periods substantially once those losses started to emerge.

Based on this experience, we recommend a balance between reducing contribution volatility by using a longer amortization period and maintaining a closer relationship between contributions and routine changes in the UAAL by using a shorter amortization period. Using a shorter amortization period also reduces or avoids negative amortization as previously discussed. Based on these three considerations we generally recommend gains and losses amortization periods in the range of 15 to 20 years.

For CCCERA, we believe it would be reasonable for the Board to continue to use 18-year amortization periods for actuarial gains and losses.

## Selection of Amortization Periods for Assumption or Method Changes

Assumption or method changes, such as a modification in the mortality assumption to anticipate an improvement in life expectancy for current active members when they retire, often include a long term remeasurement of plan costs and liabilities. For assumption changes, in effect, such changes take gains or losses that are expected to occur in the future and build them into the cost and liability measures today. For method changes, such changes fundamentally redetermine how costs are allocated to years of service for active members. In either case the long term nature of these changes could justify using a longer amortization period than that used for actuarial gains or losses, in the range of 15 to 25 years for assumption changes or even 30 years for some method changes<sup>5</sup>.

For CCCERA, we believe it would be reasonable for the Board to continue using 18-year amortization periods for assumption and method changes.

<sup>&</sup>lt;sup>5</sup> Note that the longer amortization for method changes would be most appropriate for substantial changes, such as going from Projected Unit Credit method to the Entry Age method. Since CCCERA already uses the Entry Age method, it may be appropriate to consider using the same amortization period for method changes as is used for assumption changes.

## Selection of Amortization Periods for Plan Amendments

While some plans have used 30 years to amortize the UAAL from plan amendments, recent actuarial practice has evolved to use a much shorter period. As discussed above, amortization generally involves a balance between matching member demographics and managing contribution volatility. However, for plan amendments, volatility control is not generally a consideration. That leads to the following arguments and considerations for using a short amortization period:

- Matching the amortization period to the average future working lifetime of the active members receiving the benefit improvement
- Matching the amortization period to the average life expectancy of the retired members receiving the benefit improvement
- Avoiding "negative amortization" for UAAL changes that are within the control of or result from actions taken by the plan sponsor
- > Considering any special circumstances that may apply to a specific benefit improvement

The first two considerations would usually lead to at most a 15 to 20-year amortization period while the third consideration would limit the period to around 18 years or less. Accordingly, we would recommend that the Board consider a <u>maximum</u> amortization period for plan amendments of 15 years.

As an example of the fourth consideration, current practice clearly favors shorter amortization periods for Golden Handshakes or early retirement incentive type programs (ERIP) due to the relatively short period of their expected financial impact. For example, a GFOA 2004 Recommended Practice states that "the incremental costs of an ERIP should be amortized over a short-term payback period, such as three to five years. This payback period should match the period in which the savings are realized". Recent comments to GASB by public plan actuaries are consistent with this view.

A demographically based amortization period for an ERIP could range from 0 years (for an immediate recognition of the entire UAAL due to the ERIP) to a period of 10 years. These different periods corresponded to various alternative periods of cost savings or benefit payments under such a program.

We recommend that the actuarial funding policy use a relatively short default amortization period for Golden Handshakes or ERIPs of up to five years along with a statement that a recommendation by the actuary to the Board on the amortization period be included as part of the required actuarial cost study for any such ERIP. As already stated, we also recommend that an amortization period of at most 15 years be used for any other plan amendments.

#### Amortization of Surplus

Recent experience indicates that funding policy for overfunded plans, those that have a surplus instead of a UAAL, requires separate consideration. As discussed above, generally surplus is amortized the same way as a UAAL, except that instead of producing an amortization *charge*, there is an amortization *credit*. This means that the contribution amount is the Normal Cost *minus* an amount that will in effect spend the surplus down over the amortization period.

One of the most significant changes in industry thinking and practice to come from the market experience around the turn of the 21st century is the way surplus is recognized in public pension funding policy. In many cases, short amortization periods for surplus in the late 1990s led to reductions in contributions below the level of Normal Cost, sometimes even to complete "contribution holidays" of zero contributions. As the market reversals in the early 2000s led to resumption of contributions in most pension plans, the general lesson was that a contribution level less than the Normal Cost (that is, funding the Normal Cost out of surplus) should always be viewed with caution, as ultimately the Normal Cost will reemerge as the basic cost of the plan.

One possible response would be to require that contributions never fall below the Normal Cost level. We note that this would be inconsistent with the actuarial principle that the funding policy should target 100 percent funding, and not sustain a level that is either higher or lower than 100 percent. That leads to the general conclusion that surplus should be amortized, but over very long periods. For example, CalPERS uses a 30-year amortization when there is a surplus. This same 30-year period can also be found as Recommendation 7 in the Report of the (California) Public Employee Post-Employment Benefits Commission. We recommend that the actuarial funding policy include a 30-year period for surplus amortization subject to any legal constraints<sup>6</sup>.

<sup>&</sup>lt;sup>6</sup> Before PEPRA, a public pension plan could start to amortize surplus when the funded ratio is greater than 100%. Since PEPRA has imposed a new requirement that surplus be amortized only when the funded ratio is at least 120%, along with other conditions, we would propose that a reference be made in the Board's funding policy to that requirement. In practice, we understand that PEPRA may effectively preclude the amortization of surplus.

#### **Recommended Amortization Periods for Future Changes in UAAL**

Based on the above discussions, the table below summarizes our recommendations with respect to amortization periods that the Board may want to consider with respect to any <u>future</u> changes in UAAL.

		<b>Recommended</b>
	Current Policy	for Consideration
Actuarial Gains or Losses	18	18
Assumption or Method Changes	18	18
Plan Amendments	18	15 or less
ERIPs	18	Up to 5
Actuarial Surplus	18	30

Please note that with all of the above recommendations, we recommend that the Board maintain its current policies of using closed (fixed) amortization periods and level percent of pay amortization. The exception is for actuarial surplus where a rolling amortization period would be used.

#### **Recent Developments Related to Actuarial Funding Policy From the CAAP**

While, as discussed earlier, systems can no longer look to GASB for guidance on funding policy, there is another source of guidance that has recently become available. The California Actuarial Advisory Panel (CAAP) was created by the passage of Senate Bill 1123 of the 2008/2009 legislative session and consists of eight public sector actuaries appointed by the various appointing powers pursuant to Section 7507.2 of the Government Code. We note that your principal actuary, Paul Angelo, serves on the CAAP as an appointee of the University of California.

The CAAP has been studying actuarial funding policies for some time and recently issued a statement of model funding policies. While the recommendations and opinions of the Panel are nonbinding and advisory only, such viewpoints are still anticipated to have an influence on the retirement systems that operate in California as they select and finalize their individual funding policy approaches.

Because the CAAP's work in this area is based on Segal's and other actuaries' experience with California plans like CCCERA, it is no coincidence that the elements of the funding policy developed by Segal for CCCERA are in compliance with the CAAP model policies. In particular, those model policies include preferred ranges for amortization periods that are similar to the ones presented in the above section<sup>7</sup>.

## Cost Impact

It is not possible to quantify in advance the full future cost impact associated with adopting any of the alternative amortization periods simply because the plan's future changes in UAAL are not yet identified. However, for a general illustration of cost impact, the charts in Attachments #1 and #2 compare the annual UAAL payments and the outstanding balance of the UAAL for a sample change in UAAL of \$1 million under different amortization periods. Please note that these attachments have been prepared using the economic assumptions approved for the actuarial valuation as of December 31, 2012.

## **OTHER FUNDING POLICY PARAMETERS**

There are a few other more technical funding policy parameters that are used to determine the contribution rate in the annual actuarial valuation. These parameters are discussed in this section.

### Adjustment for 18-Month Delay in Rate Implementation

In order to allow the employers to more accurately budget for pension contributions and other practical considerations, the contribution rates determined in each valuation (as of December 31) apply to the fiscal year beginning 18 months after the valuation date. As a result of that scheduled delay, the UAAL contribution rates in subsequent valuations will reflect either a gain or a loss when the actual contribution rate paid is higher or lower than the contribution rate calculated in the prior year's valuation.

Note that the contribution gain or loss as a result of this anticipated delay in implementing the contribution rate can be built into the development of the UAAL rate for the current valuation, rather than waiting until the following valuation and reflecting the delay as a gain or loss in the UAAL. CCCERA's current practice, which is the most common practice, is to reflect the delay as a gain or loss in the following valuation, rather than building the anticipated delay into the development of the current rate. We are not recommending a change to this practice for

 <sup>7</sup> The "model" UAAL amortization periods are expressed as a set of ranges as follows: Actuarial Gains or Losses
 Assumption or Method Changes
 Plan Amendments
 ERIPs
 Actuarial Surplus
 J0 years

CCCERA at this time based on the expectation that in the long term, there would be about the same number of occurrences of contribution gains or losses.

#### Cost Sharing Arrangements

Starting with the December 31, 2009 Actuarial Valuation, the Board took action to depool CCCERA's assets, liabilities and Normal Cost by employer when determining employer contribution rates. The Board action included a review of experience back to December 31, 2002. This did not involve recalculation of any employer rates prior to December 31, 2009. However, it did involve establishing the depooled assets so as to reflect the separate experience of the employers in each individual cost group from December 31, 2002 through December 31, 2009. In addition, the Board action called for a discontinuation of certain cost sharing adjustments for both member and employer contribution rates for General Tier 1 and Safety Tier A.

Even under the depooling structure, there are a few remaining cost sharing arrangements. Here is a summary of the cost sharing arrangements:

- Most smaller employers (less than 50 active members) were pooled with the applicable County tier. Two small employers with non-enhanced benefits were pooled together. Safety members from the East Contra Costa Fire Protection District were pooled with Safety members of the Contra Costa County Fire Protection District.
- > Due to a statutory requirement, the Superior Court is pooled with the County regardless of how many members the Court has.
- UAAL costs are pooled between Cost Group #1 and Cost Group #2 which represent General County and Small Districts for Tiers 1 and 3. UAAL costs are also pooled for Cost Groups #7 and #9 which are Safety County Tiers A and C.

This was done because Cost Group 1 and Cost Group 7 had active members but were generally closed to new members. If the UAAL for these two cost groups is not pooled with another cost group that is open to new active members then the UAAL rate for these generally closed cost groups would increase substantially in future years. This is due to the fact that the UAAL for CCCERA is amortized as a level percent of payroll and the payroll growth for the generally closed cost group would be less than the payroll growth assumption (currently 4.00%). This will help stabilize the employer contribution rates for the mostly closed Cost Group 1 and Cost Group 7. Normal Cost rates for those cost groups are <u>not</u> pooled.

There are some substantial differences between the Safety Tier A Enhanced and Safety Tier C Enhanced benefits, such as the period over which final average salaries are determined and the COLA. However, since the County is the only employer in these two cost groups, they will be the only employer affected by this particular pooling.

#### Employer/Member Cost Sharing of the Cost Impact of Terminal Pay

For new members after January 1, 2013, PEPRA mandates a 50:50 sharing of the total Normal Cost between members and the employers. The specific funding policy parameter discussed here involves the sharing of Normal Cost for pre-PEPRA members. Even prior to PEPRA, the cost to provide a cost-of-living adjustment (COLA) has always been shared 50:50 between the employer and the member (Section 31873). This means that the <u>COLA</u> member rate has been increased to anticipate terminal pay as part of the 50:50 cost sharing. This practice is similar to other county retirement systems that recognize that pay element.

However, this is not the current cost sharing arrangement for the cost of the <u>Basic</u> benefits. The Basic member contribution rate is not affected by the terminal pay assumption (i.e. the effect of terminal pay is an employer only cost). This occurs because, after the Paulson Settlement, a terminal pay assumption was added to the employer rate calculation but not to the calculation of CCCERA's Basic member rates. The reasons for this may be that different member groups have different levels of possible terminal pay and that the level of terminal pay observed at the assumed retirement ages for setting COLA member rates. This practice of not anticipating terminal pay in developing the Basic member rates varies among other county retirement systems.

We recommend that the Board include the details of this and other similar cost sharing practices in the funding policy.

#### Additional Employer UAAL Payments

Historically, certain participating employers have on occasion contributed additional contributions towards their UAAL (sometimes via proceeds from a Pension Obligation Bond (POB)). The additional contributions were then separately tracked and amortized as a level percent of payroll over the remaining period of CCCERA's single amortization layer (which was the prior amortization policy), and used to reduce that employer's UAAL contribution rate over that same period.

Beginning with the December 31, 2008 Actuarial Valuation, CCCERA began using multiple amortization "layers". No employers have made additional contributions since CCCERA adopted this approach. With the December 31, 2009 Actuarial Valuation, the Board depooled CCCERA's UAAL. This eliminated the need for separately tracking and amortizing any additional contribution for employers that are in their own cost group. However, this need still exists for employers that are in a cost group with more than one employer. For example, small Districts remain pooled with the County.

From an actuarial perspective, we believe it would be reasonable for CCCERA to accept additional UAAL payments in exchange for a corresponding reduction in UAAL contribution rate over period(s) and in a manner consistent with that employer's outstanding UAAL amortization layers and payments.

The outstanding balance of the additional UAAL payment amount is credited with earnings at CCCERA's investment return assumption in effect at each valuation date (currently, 7.25% per year). This means that any gain or loss on the investment of those additional payments that occurs during the amortization period over which the additional UAAL payment is recognized will be pooled across all of the employers in that particular employer's cost group. Note that additional UAAL payments from small employers would generally not significantly increase the volatility of the UAAL contribution rates for their cost groups.

If the Board would like to eliminate or reduce the pooling of these gains or losses due to investment returns on the additional UAAL payments then the following are two possibilities for addressing this:

- 1. Instead of tracking the outstanding balance of the additional UAAL payment based on CCCERA's investment return assumption, the tracking could be done based on actual market value returns.
- 2. Instead of using the tracking mechanism described earlier, any additional UAAL payments could be set aside in a "prepayment account". This account would not be a part of the valuation value of assets used to determine contribution rates in the actuarial valuation. However, the account would be part of retirement plan assets and could be invested similarly to the rest of CCCERA's assets. This account would be credited with actual market returns. Employers' could draw down any balance they had in the account and apply those funds towards their contribution requirements. Because of the accounting and reporting issues involved with this type of prepayment account, more discussions with CCCERA staff and outside auditors and legal counsel would have to occur before implementation.

We invite direction from the Board as to whether further analysis and discussion is desired on any of these policy parameters.

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.

Please let us know if you have any questions, and we look forward to discussing this with the Board.

Sincerely,

Paul Angelo, FSA, MAAA, FCA, EA

Senior Vice President & Actuary

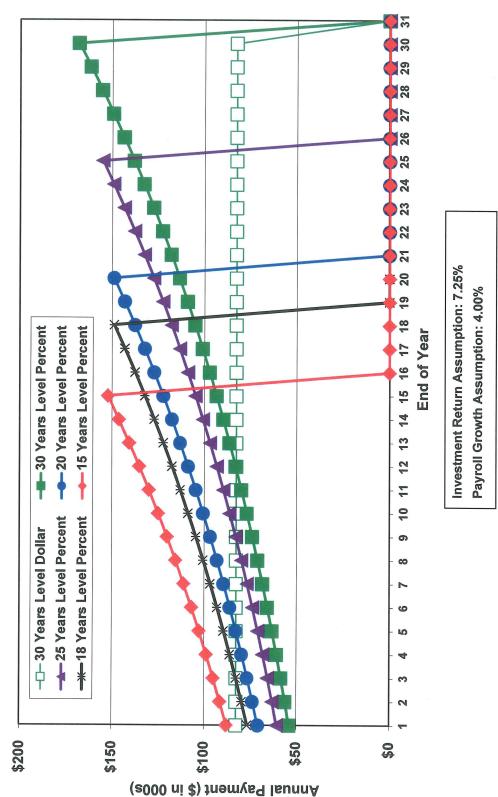
JZM/gxk Enclosures

cc: Kurt Schneider

John Morroe, ASA, MAAA, EA

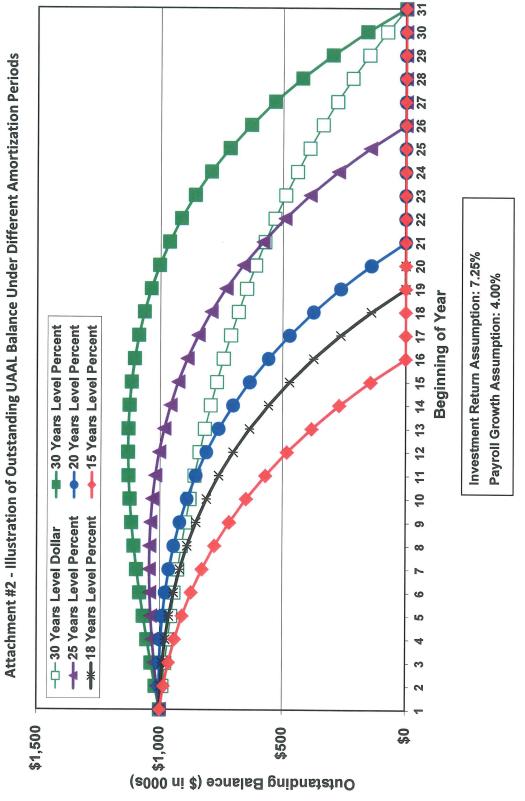
Vice President & Associate Actuary

Attachment #1 - Illustration of Payments Under Different Amortization Periods (on \$1 million UAAL)



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## CCCERA Actuarial Funding Policy

## Actuarial Funding Policy March 27, 2013

PAUL ANGELO, FSA Senior Vice President and Actuary JOHN MONROE, ASA Vice President and Associate Actuary The Segal Company

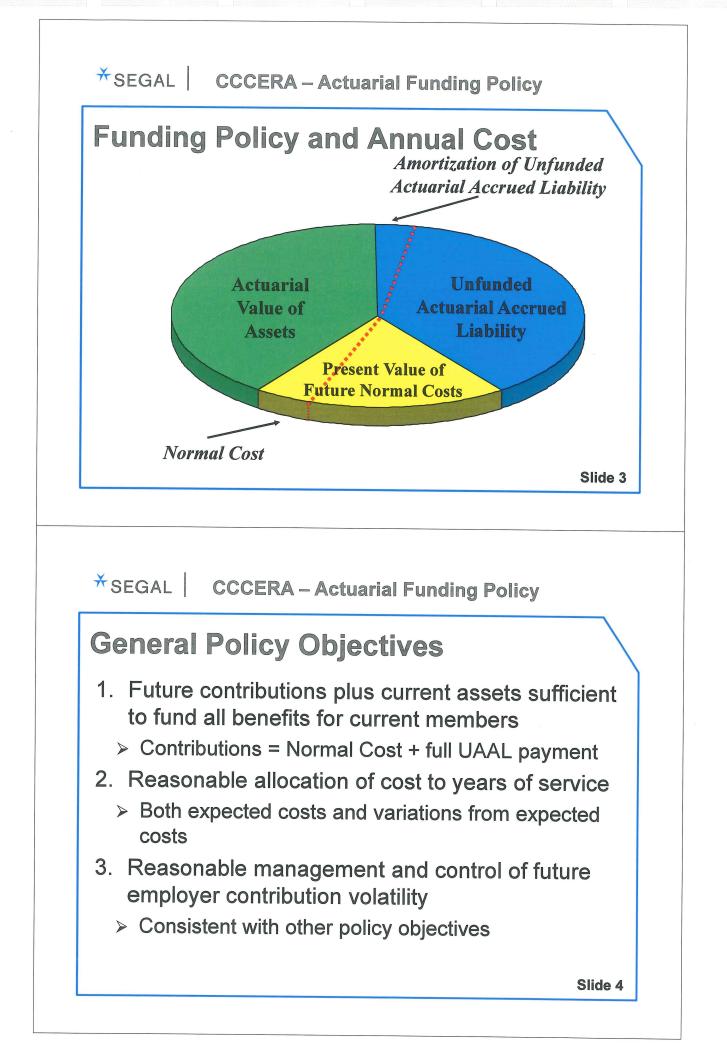
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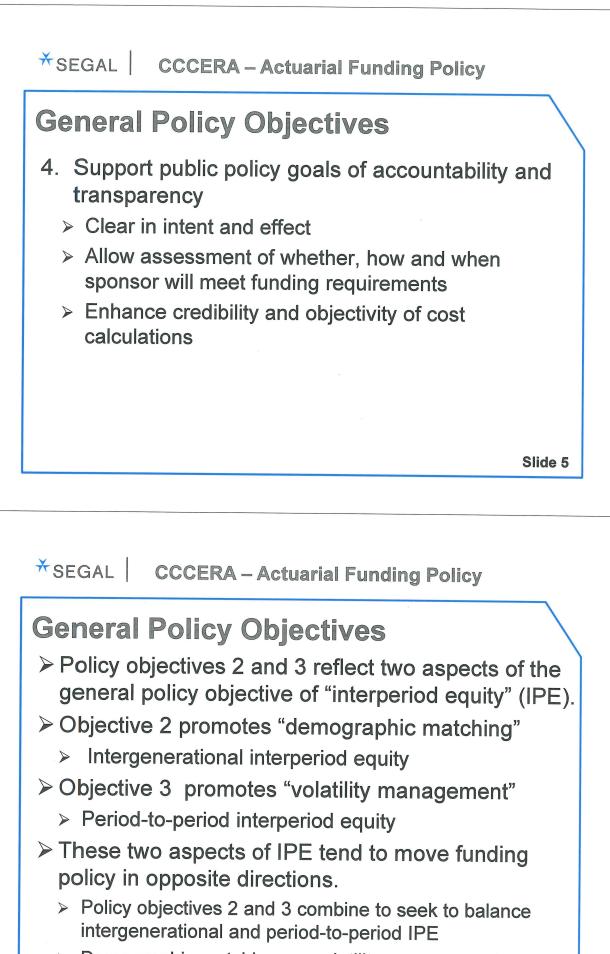
## \*SEGAL | CCCERA – Actuarial Funding Policy

## **Funding Policy Components**

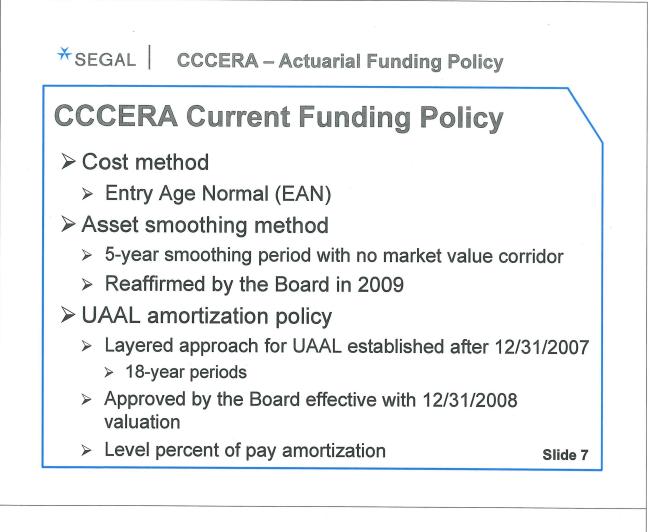
- Actuarial Cost (Funding) Method allocates costs to time periods, past vs. future
- Asset Smoothing Method assigns a value to assets for determining contribution requirements
- UAAL Amortization Policy how, and how long to fund difference between liabilities and assets
- > Interest crediting and excess earnings policy
  - > Unique to 1937 Act county systems
  - Generally separate from funding policy

Slide 2





> Demographic matching vs. volatility management Slide 6

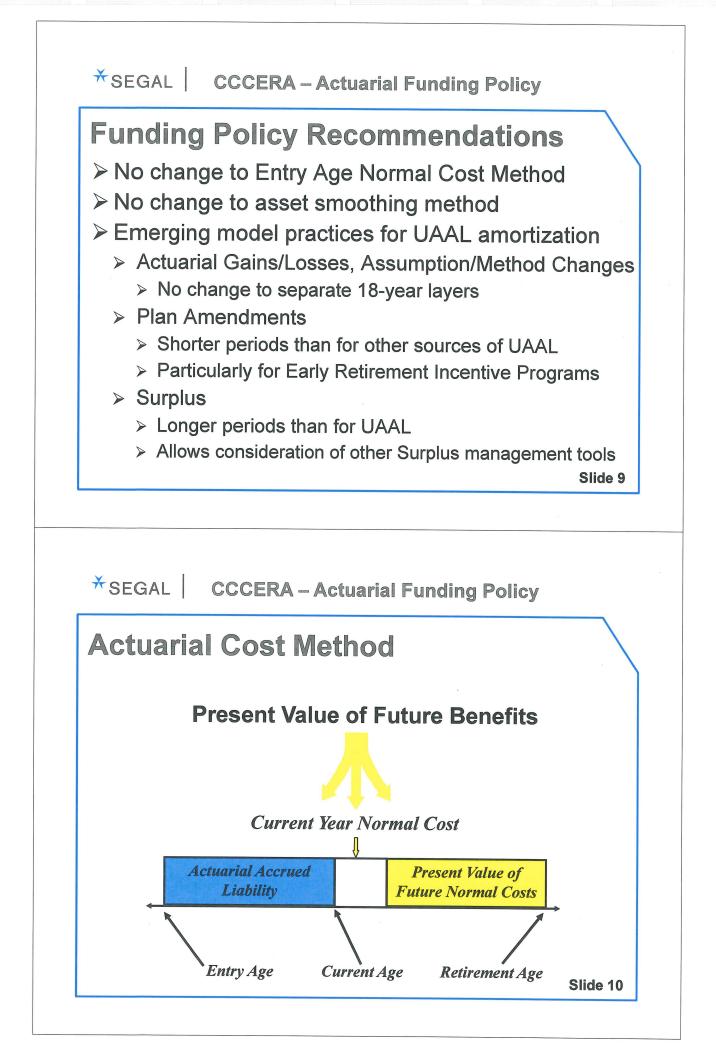


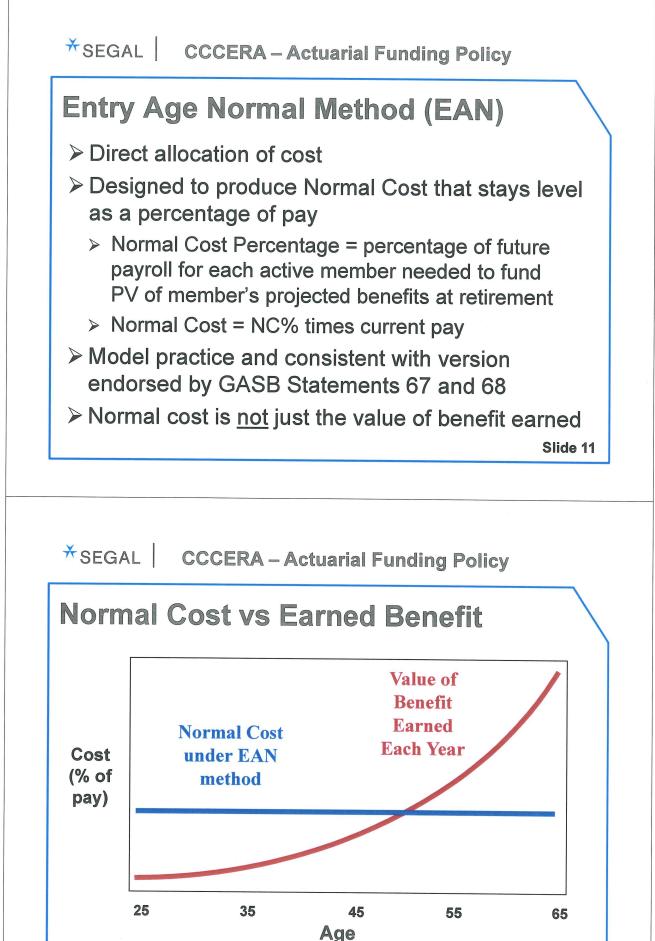
## \*SEGAL CCCERA – Actuarial Funding Policy

## **Review of CCCERA Funding Policy**

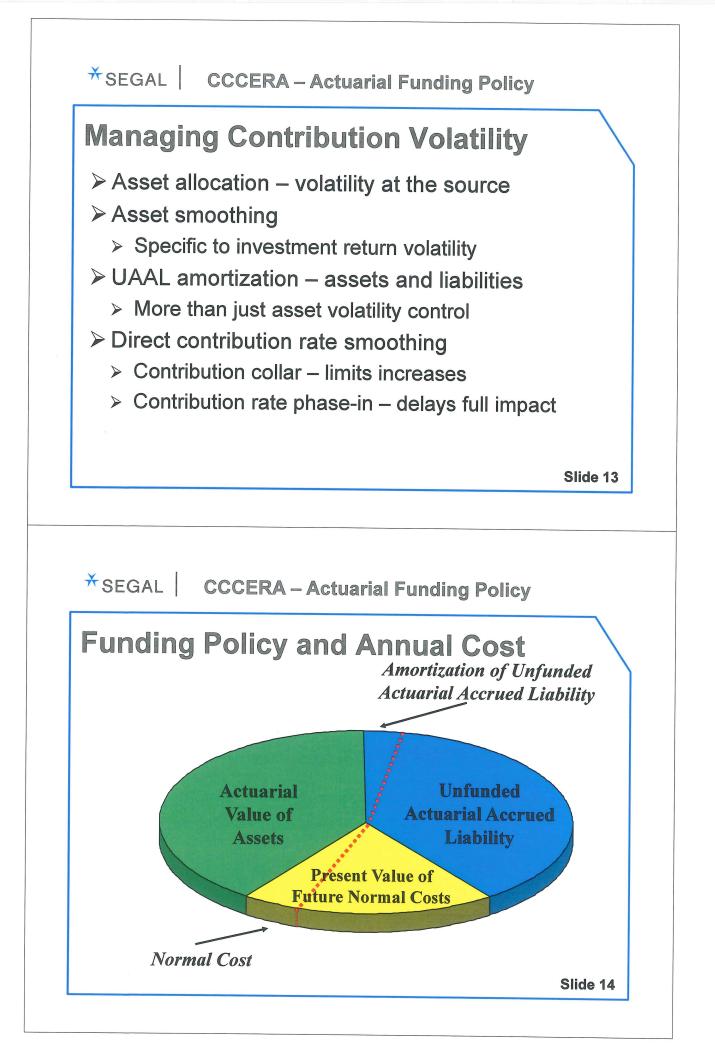
> Review all three current funding policy components

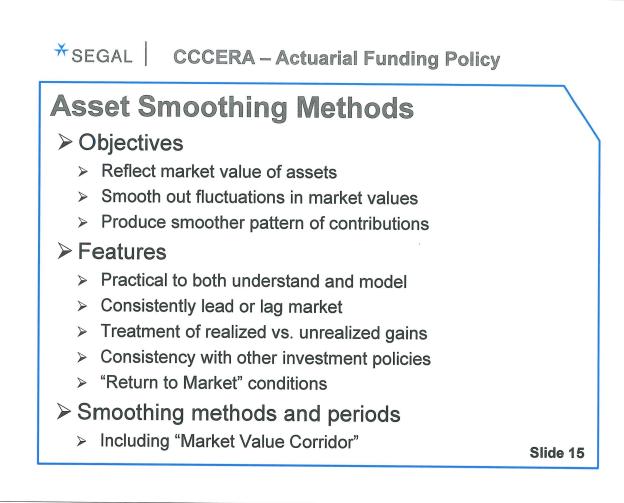
- > Cost method, asset smoothing, UAAL amortization
- Incorporate all components into a comprehensive statement of funding policy
  - > Review and adoption by the Board
  - Increased importance due to GASB changes
- Separate topic not part of this review
  - Interest crediting and excess earnings allocation policy





Slide 12



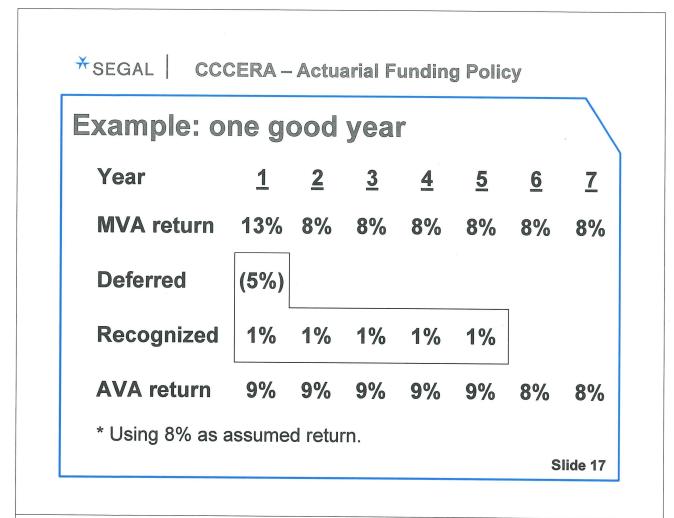


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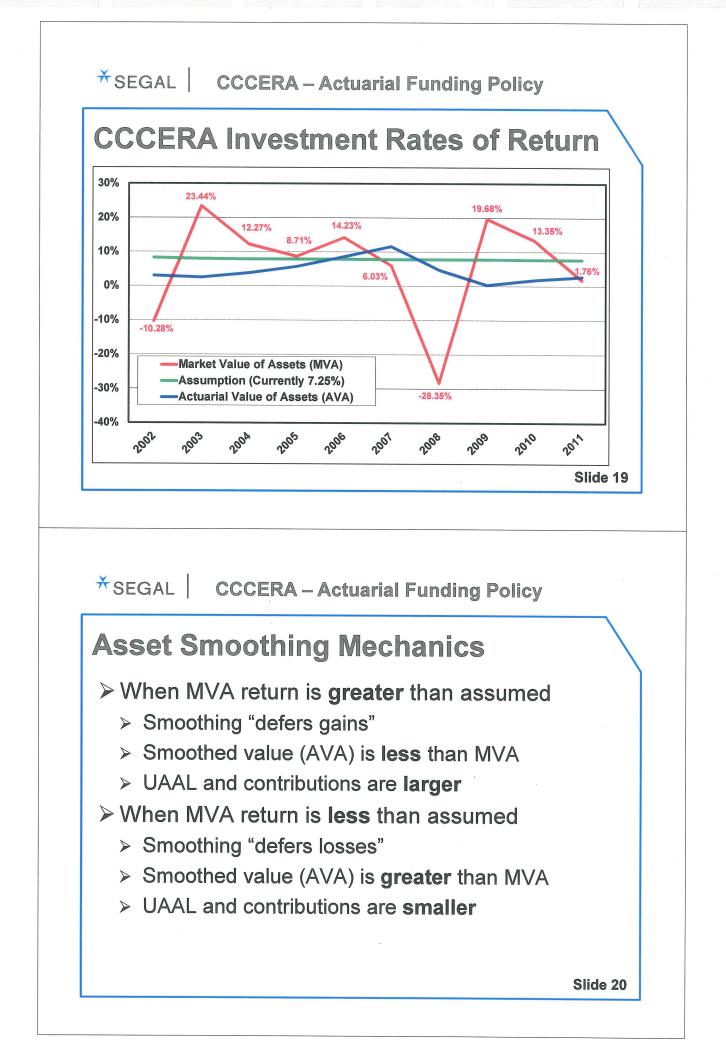


- > Contributions and benefits recognized immediately
- Split income into Immediate and Deferred portions
  - > Deferred portion gets "smoothed"
- Smooth over n years, n = 3, 4 or 5 ... or 10 or 15!
- Decide what part of earnings gets smoothed
  - > Unrealized gains/losses
  - All capital gains/losses
  - > Total return above or below assumed earnings

Slide 16



#### \*SEGAL **CCCERA – Actuarial Funding Policy** Example: one good, then one bad year Year 2 1 3 4 5 <u>6</u> 7 13% 3% 8% 8% MVA return 8% 8% 8% Deferred (5%) 5% 1% 1% 1% 1% 1% Recognized (1%) (1%) (1%) (1%) (1%) AVA return 9% 8% 8% 8% 8% 7% 8% \* Using 8% as assumed return. Slide 18



	RA Actuari G/L measured				of Dec. 31, 2 000s)	007
Year-					Amount not	
end	Gain/(I thru Dec.	OSS)	recog	nized	recognized	
2007			90%	80%	(\$97,722)	
2006	\$262,227	(\$647)	70%	60%		
2005		(\$53,290)			\$14,461	
2004	\$190,029	(\$57,177)	30%	20%	\$45,573	
2003	\$243,581	\$127,205	10%	0%	\$24,358	
Net GA	INS not yet re	ecognized			\$169,841	
Market	Value of Ass	ets			\$5,199,117	
PLUS L	OSSES not y	et recogniz	ed		<u>(\$169,841)</u>	
Actuari	al Value of A	ssets			\$5,029,276	
AVA/M	VA ratio				97%	
						Slide 21

# \*SEGAL | CCCERA – Actuarial Funding Policy

CCCERA Actuarial Value of Assets as of Dec. 31, 2008 (Market G/L measured in six month increments - \$000s)

Year- end	Market Gain/(I thru Dec.		Perce recog		Amount not recognized	
2008 2007 2006 2005 2004 Net L C	(\$1,318,200) (\$168,393) \$262,227 \$71,553 \$190,029 OSSES not yet	(\$553,808) \$67,289 (\$647) (\$53,290) (\$57,177)	30% 10%	80% 60% 40% 20% 0%	(\$1,629,425) (\$77,502) \$130,855 \$10,808 \$19,003 (\$1,546,262)	
Market PLUS I Actuar	t Value of Ass LOSSES not y ial Value of A	sets vet recogniz			(\$1,546,262) \$3,749,699 <u>\$1,546,262</u> \$5,295,961	
AVA/M	VA ratio			÷	141%	Slide 22

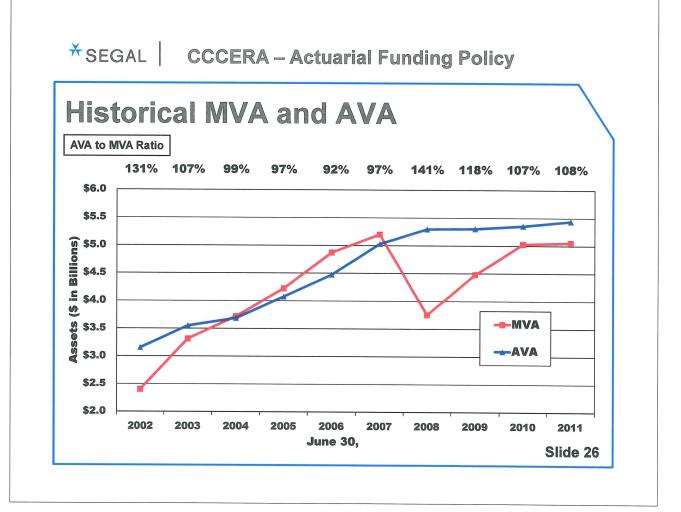
	ERA Actuaria					2009
Year-	Market \	/alue	Perce	nt not	Amount not	
end		oss)	recog	nized	recognized	
2009	thru Dec.		000/	000/	¢200.070	
	+ ,				. ,	
	(\$1,318,200)				(\$1,255,025)	
	(\$168,393)				(. , ,	
2006	\$262,227	(\$647)	30%	20%	\$78,539	
2005	\$71,553	(\$53,290)	10%	0%	\$7,155	
let LC	OSSES not yet	recognized	1		(\$827,532)	
larke	t Value of Ass	ets			\$4,476,730	
PLUS	LOSSES not ye	et recogniz	ed		\$827,532	
	rial Value of A	-			\$5,304,262	

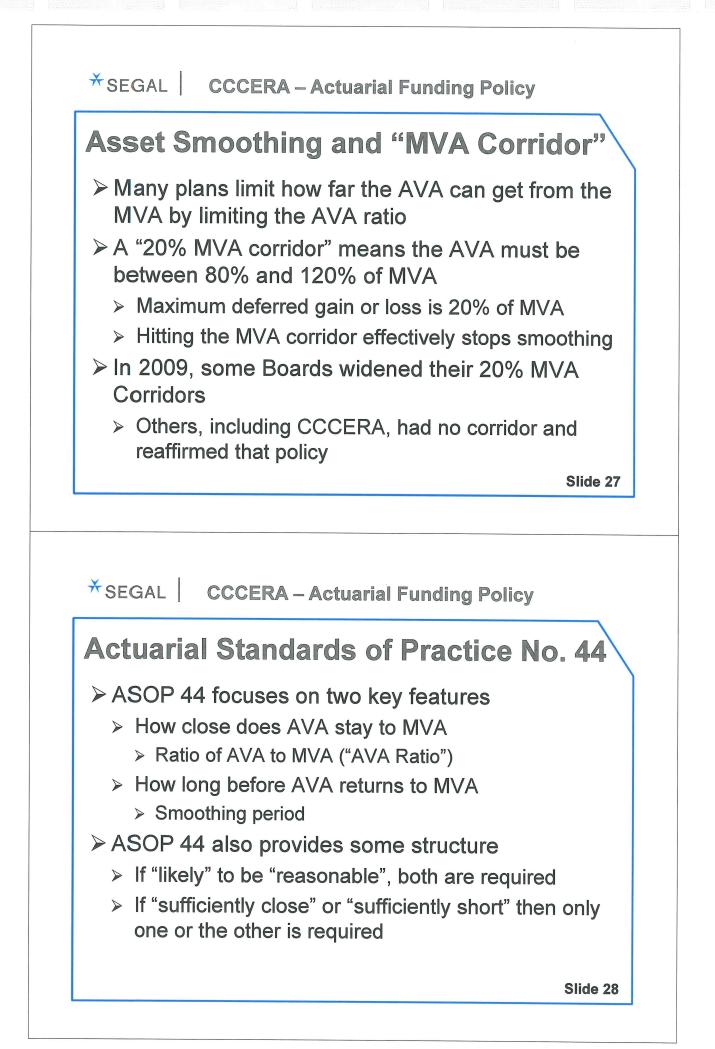
\*SEGAL CCCERA – Actuarial Funding Policy

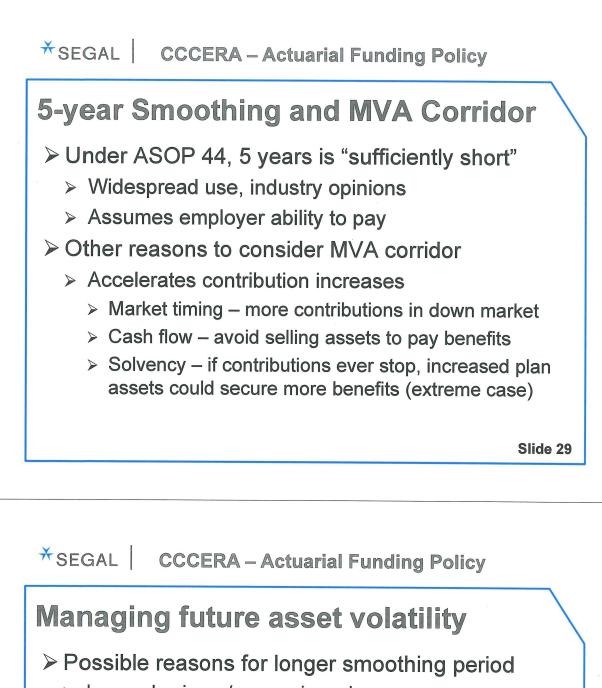
CCCERA Actuarial Value of Assets as of Dec. 31, 2010 (Market G/L measured in six month increments - \$000s)

Year-	Market	Value	Perce	nt not	Amount not	
end	Gain/(	loss)	recog	nized	recognized	
	thru Dec.	thru June	-		•	
2010	\$517,825	(\$268,336)	90%	80%	\$251,374	
2009	\$478,545	(\$39,514)	70%	60%	\$311,273	
2008	(\$1,318,200)	(\$553,808)	50%	40%	(\$880,623)	
2007	(\$168,393)	\$67,289	30%	20%	(\$37,060)	
2006	\$262,227	(\$647)	10%	0%	\$26,223	
Net LC	SSES not yet	( )			(\$328,814)	
		0			(+,)	
Marke	t Value of Ass	sets			\$5,027,157	
PLUS	LOSSES not y	et recogniz	ed		<u>\$328,814</u>	
Actuar	ial Value of A	ssets			\$5,355,971	
	IVA ratio				4070/	
	IVA Iallo				107%	
						Slide 24

	ERA Actuarial Value of the state of the second se				1
Year-	Market Value	Perce	nt not	Amount not	
end	Gain/(loss)	recog	nized	recognized	
2011	thru Dec. thru June (\$409,527) \$97,328	90%	<u>80%</u>	(\$200 712)	
	\$517,825 (\$268,336)			(\$290,712) \$201,476	
	\$478,545 (\$39,514)				
	(\$1,318,200) (\$553,808)			. ,	
2007				(, , , , ,	
let LC	SSES not yet recognized			(\$388,830)	
<b>/</b> larket	t Value of Assets			\$5,052,289	
PLUS I	LOSSES not yet recogniz	ed		\$388,830	
A	ial Value of Assets			\$5,441,119	





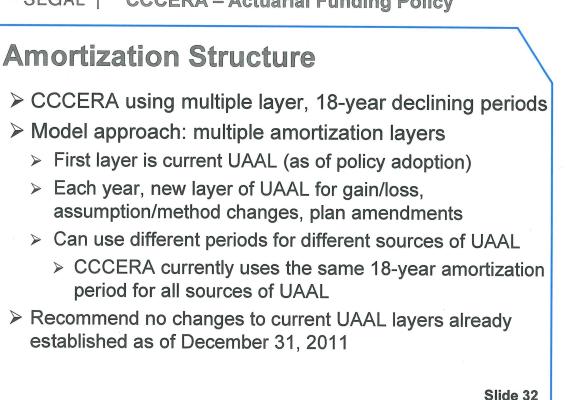


- > Longer business/economic cycles
- Greater actual market volatility (assets)
- > Greater sensitivity to contribution rate volatility
- > Greater asset volatility relative to payroll
  - > Higher funded percentages
  - > More mature plan
  - Larger benefit levels
- Note: after losses, longer smoothing means higher ultimate contribution rates
- Recommend no change to asset smoothing method

Slide 30

# SEGAL CCCERA – Actuarial Funding Policy Amortization Policy Component of Annual Contribution Normal cost plus amortization of unfunded liability Sources of Unfunded Liability Plan changes Assumption or method changes Gains / losses Amortization policy includes: Structure: Single UAAL or in layers Also: fixed (closed) or rolling (open) amortization Payment pattern: level dollar or level percent of pay Periods: how long to fund the UAAL

\*SEGAL CCCERA – Actuarial Funding Policy

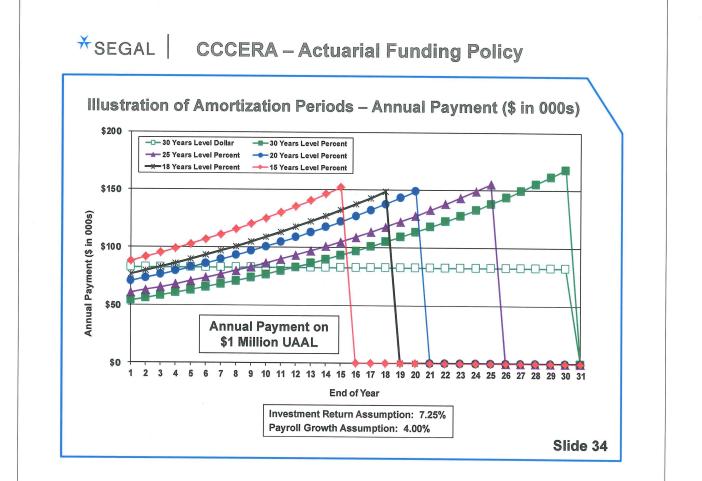


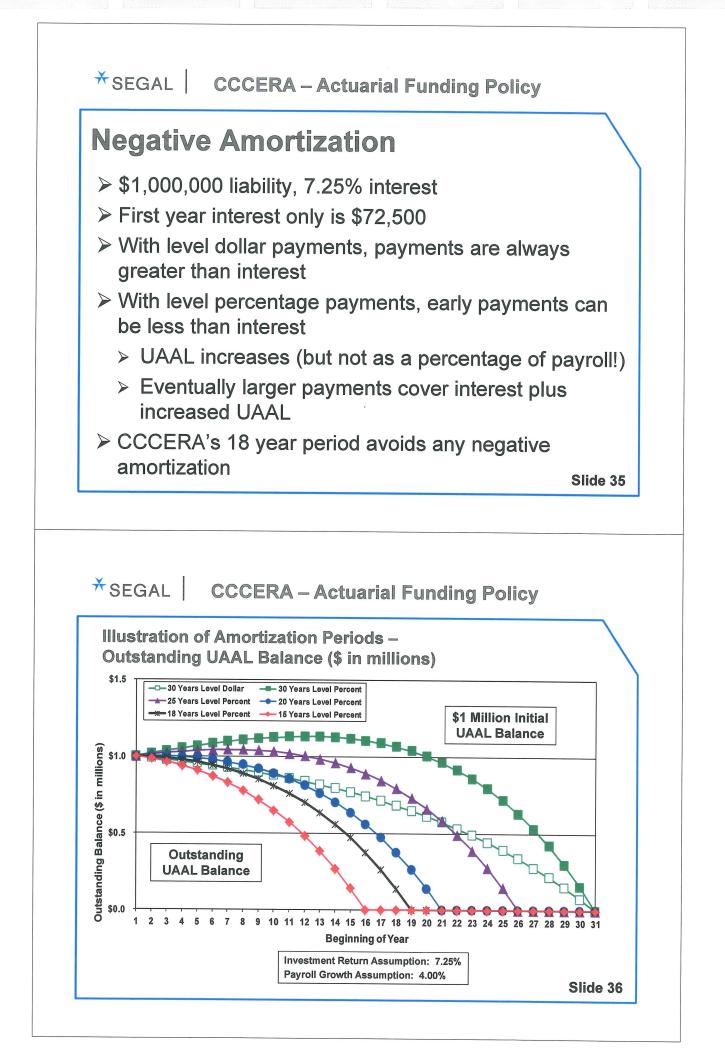
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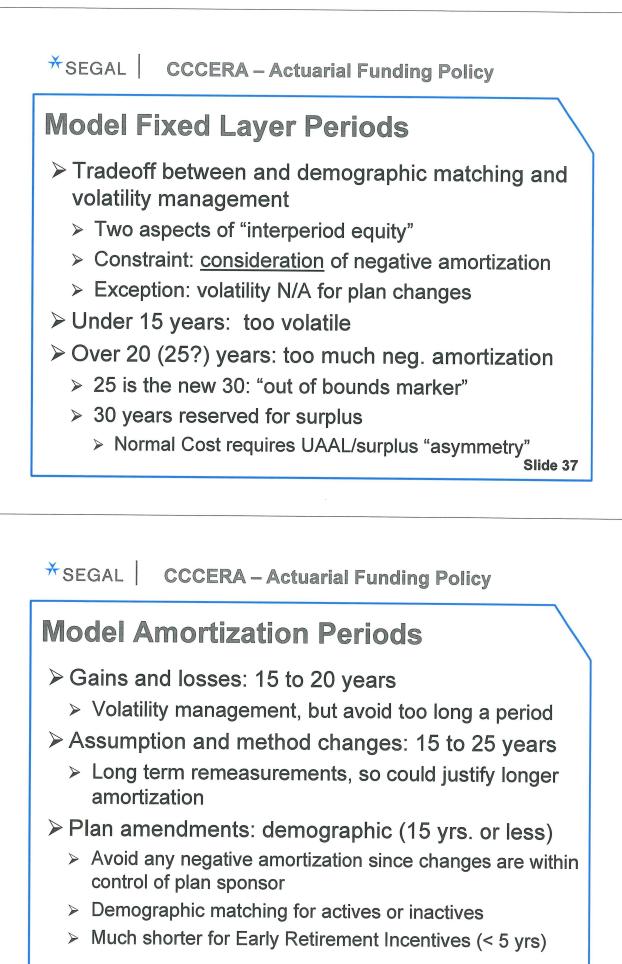
# **Illustration of Amortization Methods**

7.25% interest 4.00% salary incr.	30 years Flat dollar	30 years % of pay	25 years % of pay	20 years % of pay	18 years % of pay	
Increase in AAL	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Amortization factor (first year)	12.1037 0.082620	18.5457 0.053921	16.5126 0.060560	14.1413 0.070715	13.0858 0.076418	11.3757 0.087907
Amortization amount					01010410	0.001 501
Year 1	\$ 82,620	\$ 53,921	\$ 60,560	\$ 70,715	\$ 76,418	\$ 87,907
Year 15	\$ 82,620	\$ 93,374	\$ 104,870	\$ 122,455	\$ 132,332	\$ 152,226
Year 20	\$ 82,620	\$ 113,603	\$ 127,591	\$ 148,985	\$ 0	\$ 0
Year 30	\$ 82,620	\$ 168,161	\$ 0	\$ 0	\$ 0	\$ 0
Total amount paid						
Principal	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Interest	1,478,589	2,024,153	1,522,072	1,105,748	959,782	760,209
Total	\$ 2,478,589	\$ 3,024,153	\$ 2,522,072	\$ 2,105,748	\$ 1,959,782	\$ 1,760,209

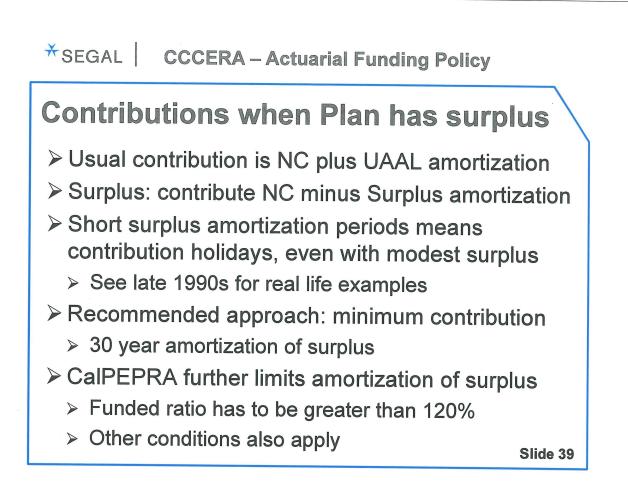
Slide 33

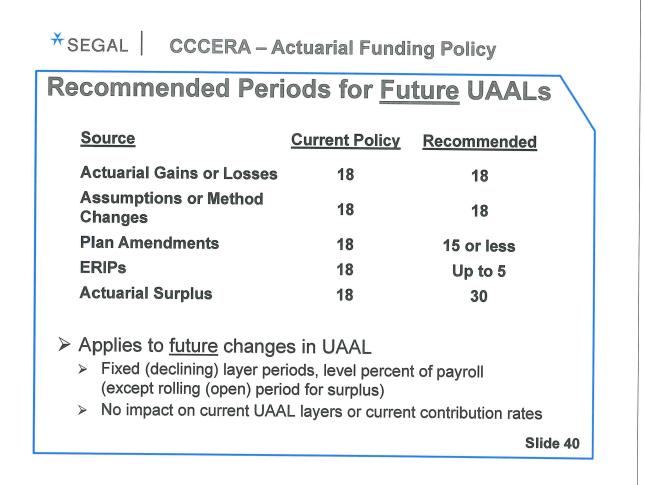


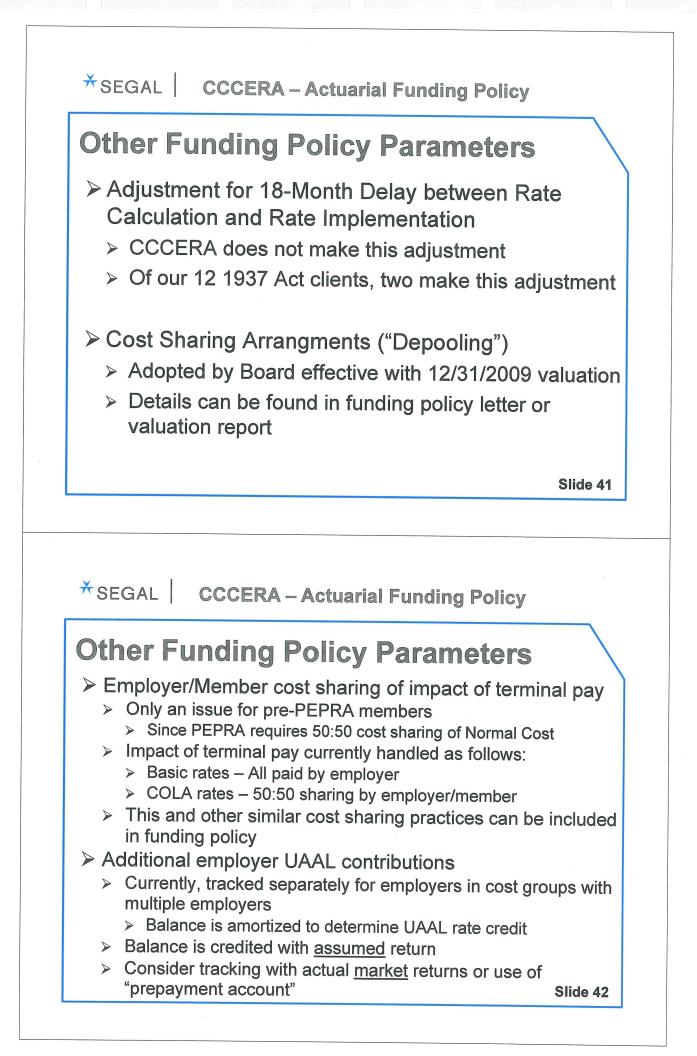


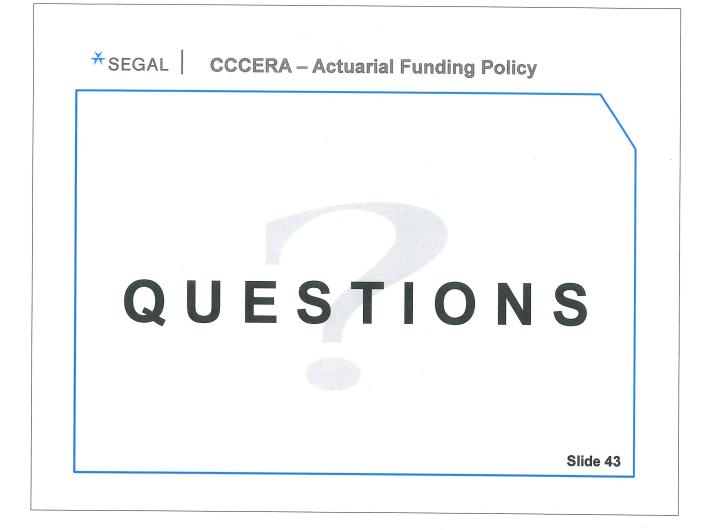


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THE SEGAL COMPANY 100 Montgomery Street, Suite 500 San Francisco, CA 94104-4308 T 415.263.8200 F 415.263.8290 www.segalco.com

March 12, 2013

Ms. Marilyn Leedom Chief Executive Officer Contra Costa County Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520 John W. Monroe, ASA, MAAA, EA Vice President & Associate Actuary jmonroe@segalco.com



# Re: Contra Costa County Employees' Retirement Association Five-Year Projection of Employer Contribution Rate Changes Based on Estimated 14.1% Gross Market Value Investment Return for 2012 and Reflects Recently Adopted Changes in Economic Assumptions

Dear Marilyn:

As requested, we have updated our five-year projection of estimated employer contribution rate changes for CCCERA. This projection is derived from the December 31, 2011 actuarial valuation results and incorporates an estimated gross market value investment return of 14.1% for the 2012 calendar year. The projections also reflect a change to the economic assumptions starting with the December 31, 2012 valuation. These changes were adopted by the Board in February 2013. Key assumptions and methods are detailed below.

## Results

The estimated contribution rate changes shown on the next page apply to the recommended average employer contribution rate. For purposes of this projection, the rate changes that are reflected include the asset gains and losses that are funded as a level percentage of the Association's total active payroll base, as well as contribution increases from the changes in economic assumptions starting with the December 31, 2012 valuation.

The changes in contribution rate are due to: (1) deferred gains and losses from the actuarial asset smoothing methodology; (2) losses due to investment income not earned on the difference between the Actuarial Value of Assets (AVA) and Market Value of Assets (MVA) (and gains when the opposite occurs); (3) contribution gains and losses which occur from delaying the implementation of new rates until 18 months after the actuarial valuation date; and (4) contribution increases due to the changes in economic assumptions.

Benefits, Compensation and HR Consulting Offices throughout the United States and Canada

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The following table provides the year-to-year rate changes from each of the above components and the cumulative rate change over the five-year projection period. To obtain the estimated average employer contribution rate at each successive valuation date, these cumulative rate changes should be added to the rates developed from the December 31, 2011 valuation. These rate changes become effective 18 months following the actuarial valuation date shown in the table.

Rate Change	Valuation Date (12/31)									
Component	2012	2013	2014	2015	2016					
(1) Deferred (Gains)/Losses	2.97%	0.02%	-0.89%	-0.42%	-0.13%					
<ul> <li>(2) (Gain)/Loss of Investment Income on Difference Between AVA and MVA</li> </ul>	0.32%	-0.12%	-0.12%	-0.05%	-0.02%					
(3) 18 Month Rate Delay	0.40%	0.88%	0.43%	-0.01%	-0.06%					
(4) Changes in Economic Assumptions	<u>5.55%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>					
Incremental Rate Change	9.24%	0.78%	-0.58%	-0.48%	-0.21%					
Cumulative Rate Change	9.24%	10.02%	9.44%	8.96%	8.75%					

The rate changes shown below represent the <u>average</u> rate for the aggregate plan.

The difference between these cumulative rate changes and those shown in our August 8, 2012 letter (i.e., previous five-year projection) are as follows:

	Valuation Date (12/31)								
	2012	2013	2014	2015	2016				
Cumulative Rate Change From August 8, 2012 Letter	4.16%	5.25%	5.15%	5.32%	5.74%				
Reflecting Actual Investment Return through 12/31/2012 and Changes in Economic Assumptions	9.24%	10.02%	9.44%	8.96%	8.75%				
Difference	5.08%	4.77%	4.29%	3.64%	3.01%				

The average employer contribution rate as of the December 31, 2011 Actuarial Valuation is 37.87%, and based on the cumulative rate changes above is projected to progress as shown below.

	Valuation Date (12/31)							
	2012	2013	2014	2015	2016			
Average Employer Contribution Rate	47.11%	47.89%	47.31%	46.83%	46.62%			

The rate change for an individual cost group or employer will vary depending primarily on the size of that group's assets and liabilities relative to its payroll. The ratio of the group's assets to payroll is sometimes referred to as the volatility index (VI). A higher VI results in more volatile contributions and can result from the following factors:

- > More generous benefits
- > More retirees
- > Older workforce
- > Higher funded ratio
- Issuance of Pension Obligation Bonds (POBs)

The attached exhibit shows the VI for CCCERA's cost groups along with the "relative VI" which is the VI for that specific cost group divided by the average VI for the aggregate plan. Using these ratios we have estimated the rate change due to the generally investment related net losses for each individual cost group by multiplying the rate changes shown above for the aggregate plan by the relative VI for each cost group. Note that the rate change for each individual cost group that is due to the changes in economic assumptions adopted for the December 31, 2012 actuarial valuation was estimated based on applying the assumption changes to the December 31, 2011 actuarial valuation. The estimated rate changes for each cost group are shown in the attached exhibit.

Note that because we have estimated the allocation of the rate changes across the cost groups, the actual rate changes by group may differ from those shown in the exhibit, even if the planwide average rate changes are close to those shown above.

# **Key Assumptions and Methods**

The projection is based upon the following assumptions and methods:

- December 31, 2011 non-economic assumptions remain unchanged. Note that a study of these assumptions is currently in progress and any changes would also be reflected in the December 31, 2012 valuation.
- > December 31, 2011 retirement benefit formulas remain unchanged.
- December 31, 2011 1937 Act statutes remain unchanged. In particular, these projections do not reflect any changes in benefits or contributions due to AB 340 ("PEPRA") or AB 197.
- UAAL amortization method remains unchanged (i.e., 18-year layers, level percent of pay).
- December 31, 2012 economic assumptions reflect the recently adopted recommendations from our Review of Economic Actuarial Assumptions for the December 31, 2012 Actuarial Valuation and remain unchanged in future years, including the 7.25% investment earnings assumption.
- > The gross market value investment return of 14.1% during 2012 was reduced by an estimated 0.65% to account for investment and administrative expenses.
- Deferred investment gains and losses are recognized per the asset smoothing schedule prepared by the Association as of June 30, 2012. In addition, the estimated investment loss for the second half of 2012 is also recognized over a five-year period. They are funded as a level percentage of the Association's total active payroll base.
- We have assumed that returns of 7.25% are earned on a market value basis for each of the next four years after 2012.
- > Deferred investment gains are all applied directly to reduce the UAAL. Note that this assumption may not be entirely consistent with the details of the Board's Interest Crediting and Excess Earnings Policy.
- Active payroll grows at 4.25% per annum during 2011 and then 4.00% per annum thereafter.
- The VI used for these projections is based on the December 31, 2011 Actuarial Valuation and is assumed to stay constant during the projection period.
- > All other actuarial assumptions used in the December 31, 2011 actuarial valuation are realized.

- No changes are made to actuarial methodologies, such as adjusting for the contribution rate delay in advance.
- > The projections do not reflect any changes in the employer contribution rates that could result due to future changes in the demographics of CCCERA's active members or decreases in the employer contribution rates that might result from new hires going into the PEPRA tiers.

Finally, we emphasize that projections, by their nature, are not a guarantee of future results. The modeling projections are intended to serve as illustrations of future financial outcomes that are based on the information available to us at the time the modeling is undertaken and completed, and the agreed-upon assumptions and methodologies described herein. Emerging results may differ significantly if the actual experience proves to be different from these assumptions or if alternative methodologies are used. Actual experience may differ due to such variables as demographic experience, the economy, stock market performance and the regulatory environment.

Unless otherwise noted, all of the above calculations are based on the December 31, 2011 actuarial valuation results including the participant data and actuarial assumptions on which that valuation was based. That valuation and these projections were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary.

The undersigned is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Please let us know if you have any questions.

Sincerely,

John Monroe

AW/gxk Enclosure

cc: Kurt Schneider

Exhibit

Contra Costa County Employees' Retirement Association Estimated Employer Rate Change by Cost Group (CG) Based on December 31, 2011 Valuation with Estimated 14.1% Gross Market Value Return for 2012 Reflects Changes in Economic Assumptions Effective with December 31, 2012 Actuarial Valuation

CG#5 CG#6 Enhanced Non-Enhanced CCCFPD District Tier 1 Tier 1	S34,055,510         S3,5         S3,5	%         10.24%         5.93%           CG#11         CG#12         5.93%           CG#11         CG#12         CG#12           Enhanced         Non-Enhanced         5.93%           San Ramon Valley FD         Safety Tier A         5.93%           7         Safety Tier A         Safety Tier A           7         Safety Tier A         5.975,865           8         10.63         9.74,861           9         1.41         9.74           10.63         1.063         9.74           6         1.482%         1.09%           1.10%         0.75%         -0.75%           6         -0.82%         -0.75%           -0.68%         -0.23%         -0.27%	6 14.82% 13.66% 6 15.92% 14.66% 6 15.10% 13.91% 14.42% 13.30%
CG#4 Enhanced Housing Authority Tier 1	5,83,106,617 5,85,625,516 6,789 0,78 0,787% 0,617 0,789% 1,45% 1,45% 1,45% 1,45% 7,27% 7,43% 7,43% 7,43%	0.90% CG#10 Enhanced Moraga-Orinda FD Safat FD S113,147,927 S7,516,620 15,05 13,05 13,05 1,99 13,55% -0.26% -0.26%	18.34% 19.89% 18.74%
CG#3 Enhanced CCC Sanitary District Tier 1	\$168,880,730 \$24,734,871 \$24,734,871 6.83 6.83 9.34% 0.77% 0.77% 0.19% 9.34% 10.04% 9.52% 9.52% 9.52%	CG#8 CG#8 CGFBDhanced CCCFPDhast CCCFPD Safey Tier A S33,1330,767 S33,1330,767 S33,1330,767 S33,604,378 19,77% 19,77% 19,77% -1.29% -1.29% -1.29% -1.07% -1.07%	19.77% 21.50% 20.21% 19.14%
CG#1 & CG#2 Combined Enhanced General Tier 1 & 3	\$2,791,051,968 \$483,579,864 5.77 6.77 0.76 0.46% -0.16% -0.37% -0.16% 5.84% 7.44% 7.44% 5.84% 7.44% 5.84%		16.43% 17.74% 16.77% 15.96%
	Market Value of Asses (MVA)* Projected Payroll for 2012 Volatiliy Index (VJ) = MVA/Payroll Relative Volatility Index (VJ) = CG VI / Total Plan VI Estimated Incremental Rate Change as of 12/31/2012 Estimated Incremental Rate Change as of 12/31/2014 Estimated Incremental Rate Change as of 12/31/2014 Estimated Incremental Rate Change as of 12/31/2015 Estimated Incremental Rate Change as of 12/31/2015 Estimated Incremental Rate Change as of 12/31/2015 Estimated Incremental Rate Change as of 12/31/2015 Cumulative Rate Change as of 12/31/2013 Cumulative Rate Change as of 12/31/2013 Cumulative Rate Change as of 12/31/2015 Cumulative Rate Change as of 12/31/2015 Cumulative Rate Change as of 12/31/2015 Cumulative Rate Change as of 12/31/2015		Cumulative Rate Change as of 12/31/2012 Cumulative Rate Change as of 12/31/2013 Cumulative Rate Change as of 12/31/2014 Cumulative Rate Change as of 12/31/2015

\$5,037,888,833 \$666,394,146

Total Plan 7.56

8

9.24% 0.78% -0.58% -0.48% 9.24% 10.02% 8.96% 8.75%

\* Excludes Post Retirement Death Benefit reserve.

These rates do not include any employer subvention of member contributions or any member subvention of employer contributions.

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SEGAL

# **MEMO**

Date:	March 27, 2012	MEETING DATE
	March 27, 2013	MAR 27 2013
To:	CCCERA Board of Retirement	AGENDA ITEM
From:	Kurt Schneider, Deputy Chief Executive Officer	Ŧ5
Subject:	First 5 Contra Costa - \$2 Million UAAL Prepayment	
Recommendation:	Consider First 5's Request Regarding the Amortization	n of the Prepayment

Over the past year CCCERA staff has had discussions with First 5 Contra Costa Children and Families Commission (First 5) regarding the Unfunded Actuarial Accrued Liability (UAAL), and First 5's required contribution to fund it. First 5 is currently pooled with Cost Groups #1 and #2 for the purpose of calculating their UAAL contribution rate, so any such prepayment would require some type of special treatment to reduce First 5's UAAL contribution rate in the future in such a way that the prepayment has minimal impact on the UAAL contribution rate of the other employers in the cost group.

While this is not the first time a CCCERA participating employer has made an additional contribution towards their UAAL, this is the first time since CCCERA adopted multiple amortization "layers" in 2008. In addition, there are other circumstances unique to First 5 that the Board should bear in mind when deciding whether to treat this prepayment differently than those in the past. The following correspondence is attached:

- March 29, 2012 correspondence from CCCERA to First 5 explaining how First 5's UAAL contribution rate is determined
- December 17, 2012 request from First 5 regarding the treatment of their proposed \$2 million UAAL prepayment
- February 6, 2013 response from the System's actuary, the Segal Company, which recommended we granted First 5's request with the exception that the amortization of the prepayment be done as a level percent of payroll
- March 1, 2013 response from First 5 giving further support for their request regarding the level dollar amortization
- March 19, 2013 response from Segal acknowledging that First 5's request for level dollar amortization is reasonable from an actuarial perspective, and would not unnecessarily complicate the actuarial valuation process

**Recommendation:** Consider whether it is appropriate to amortize First 5's UAAL prepayment as a level dollar amount, and make any Board action subject to legal review.



March 29, 2012

Shawn Garcia Administrative Manager First 5 Contra Costa 1485 Enea Ct., Suite 1200 Concord, CA 94520

Re: Followup to meeting of February 28, 2012

Dear Shawn,

Thank you for meeting with us on February 28, 2012 to discuss your questions on the depooling methodology in respect to First 5 and the possibility of making payments towards your Unfunded Actuarial Accrued Liability (UAAL).

As we discussed, for the purpose of calculating the employer's contribution rate towards the Unfunded Actuarial Accrued Liability (UAAL), small employers are pooled with the County. The Board took action to group those employers with less than 50 employees with the most appropriate group. In this case, First 5 is pooled with Cost Group #1. A review with our counsel indicates that the Board has appropriately and lawfully established uniform rates based on a pooling of the actuarial liabilities generated by the employees of different participating employers.

The current practice of CCCERA is to amortize gains and losses (UAAL) by year, over an 18 year period. As of the December 31, 2010 valuation, the UAAL rate for Cost Group #1 was 21.25% of payroll. An employer could, in theory, make a contribution exactly equal to their UAAL and receive an adjustment to their contribution rate that offsets their UAAL contribution rate.

Based on the UAAL as of December 31, 2010, in order to receive a UAAL credit of 21.25%, First 5 would have had to contribute \$3,456,000 as of that date. This amount is based on current payroll, increased by 4.25% per year. When those amounts are discounted back to the valuation date at 7.75% per year they total \$3,456,000.

After the additional contribution is made, the UAAL contribution rate for the entire Rate Group would be calculated as if the additional contribution had not been made. Then First 5 would receive a reduction to their contribution rate as the additional contribution is amortized. Since all assumptions will not exactly be met, the credit in future years will not exactly offset the UAAL contribution rate, however, First 5 will eventually receive credit for the entire additional contribution as long as they have payroll and a required contribution. Note that if the payroll for First 5 does not increase as fast as the entire Rate Group, the credit from the additional payment could far exceed the UAAL contribution rate and serve to offset the employer Normal Cost.

Because of the complicated subject matter, and the changes ensuing because of variances, we recommend that you consult with your actuary before making any additional contributions towards the First 5 UAAL.

Please let me know if you have further questions on this matter.

Sincerely,

Marilyn Leedom Retirement Chief Executive Officer





Creating a Brighter Future for Contra Costa's Children and Families

December 17, 2012

Marilyn Leedom Chief Executive Officer CCC Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520

Dear Marilyn,

We are responding to your letter of March 29, 2012, which offered the possibility of making a contribution toward First 5's pension unfunded actuarial liability (UAAL).

In consultation with the Commission's actuary, John Bartel, staff and Commissioners have discussed your proposal and reviewed several prepayment scenarios. At its November 5, 2012 meeting, the Commission approved a motion to partially pre-fund the Commission's pension unfunded accrued actuarial liability (UAAL) payment; and authorized the Executive Director to present to CCCERA the Commission's desire to pre-fund its UAAL with a payment of \$2 million to be amortized over 11 years at 7.75%.

Mr. Bartel offers this explanation for the CCCERA Board considering accepting a \$2 million prepayment in exchange for an 11 year level dollar reduction of First 5s contribution payments:

The UAAL for First 5 is pooled with the County and ten other Districts in Cost Groups #1 and #2. We understand that in order to determine the adjustment to First 5's contribution rate due to the prepayment, an amortization of the prepayment will have to be created and tracked as has been done by CCCERA for other pooled Districts to account for POBs or any other special contributions. Historically, when an agency has paid a portion of the UAAL CCCERA has used the same amortization method (and period) for the special contribution as used by CCCERA to amortize the UAAL. The last such payment, however, was in 2007 when CCCERA used a single amortization layer. Subsequently CCCERA has moved to a layered amortization policy.

The December 31, 2011 Actuarial Valuation shows five different amortization periods ranging from 11 to 18 years, with a sixth period expected to be added in the 2012 Valuation. In the December 31, 2011 Actuarial Valuation, the outstanding balance of the first layer (the entire December 31, 2007 outstanding UAAL) represented approximately 61% of the UAAL, and had 11 years remaining. We believe a reasonable approach is to amortize First 5's UAAL prepayment using the same period as that layer. The proposed prepayment is less than this outstanding layer. There are two main reasons why this approach is beneficial for both First 5 and CCCERA.

The first benefit is to allow First 5 to manage contribution rate volatility. CCCERA abandoned the single closed amortization layer approach in favor of multiple layers precisely to avoid excessive contribution rate volatility. By using a longer period for new gains and losses than is used for the outstanding UAAL, contribution rate adjustments are minimized. However, closed layers unavoidably lead to tail volatility when the layers are fully amortized. Using the special contribution credit layer to offset what is by far the largest outstanding UAAL layer, First 5 can mitigate this tail volatility. The second benefit is to minimize investment risk to the County and the ten other Districts in the UAAL pool. Since First 5 is essentially credited with the long-term expected rate of return on the outstanding balance of the prepayment credit throughout the amortization period, by amortizing the credit as a level dollar along with the shortest outstanding UAAL layer, the risk to the other employers is minimized.

We look forward to working with you toward an arrangement that is acceptable to all parties. Thank you for considering our request.

Sincerely,

Sean Casey **Executive Director** 

cc: John Bartel



THE SEGAL COMPANY 100 Montgomery Street Suite 500 San Francisco, CA 94104-4308 T 415.263.8200 F 415.263.8290 www.segalco.com

February 6, 2013

Ms. Marilyn Leedom Chief Executive Officer Contra Costa County Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520

# Re: Contra Costa County Employees' Retirement Association First 5 Children and Families Commission ("First 5") Potential Prepayment Towards Unfunded Actuarial Accrued Liability (UAAL)

Dear Marilyn:

As requested, we are providing information regarding First 5's potential \$2 million UAAL prepayment. First 5's December 17, 2012 letter contains their specific request which consists of making a \$2 million prepayment towards their December 31, 2011 UAAL in exchange for an 11-year level dollar amortization of the prepayment that will be used to reduce First 5's UAAL contribution rate.

# Background

Historically, certain participating employers have contributed additional contributions towards their UAAL (sometimes via proceeds from a Pension Obligation Bond (POB)). The additional contributions were then separately tracked and amortized as a level percent of payroll over the remaining period of CCCERA's single amortization layer, and used to reduce that employer's UAAL contribution rate over that same period.

Beginning with the December 31, 2008 Actuarial Valuation, CCCERA began using multiple amortization "layers". No employers have made additional contributions since CCCERA adopted this approach. With the December 31, 2009 Actuarial Valuation, the Board depooled CCCERA's UAAL. This eliminated the need for separately tracking and amortizing any additional contribution for employers that are in their own cost group, however, small Districts remained pooled with the County.

Founding Member of the Multinational Group of Actuaries and Consultants, a global affiliation of independent firms

Ms. Marilyn Leedom February 6, 2013 Page 2

In CCCERA's annual actuarial valuation, First 5's UAAL is pooled with the County and ten other employers as part of Cost Group 1 and 2. This UAAL is amortized as layers over various periods that range from 11 years to 18 years as of December 31, 2011. Our August 8, 2012 letter contains the UAAL for each employer and the methodology used to determine the UAAL. Based on that letter, First 5's UAAL is \$3,995,000 as of December 31, 2011. First 5's UAAL amortization layers and the periods remaining for each layer as of December 31, 2011 are as follows:

Date Established	Source	Outstanding Balance	Years Remaining	
December 31, 2007	Restart of Amortization	\$2,450,000	11	
December 31, 2008	Actuarial (Gain)/Loss	\$268,000	15	
December 31, 2009	Actuarial (Gain)/Loss	\$557,000	16	
December 31, 2009	Assumption Change	\$133,000	16	
December 31, 2009	Depooling Implementation	\$(252,000)	16	
December 31, 2010	Actuarial (Gain)/Loss	\$518,000	17	
December 31, 2011	Actuarial (Gain)/Loss	\$321,000	18	
	Total UAAL:	\$3,995,000		

# Discussion

From an actuarial perspective, we believe it would be reasonable for CCCERA to accept the \$2 million prepayment towards First 5's December 31, 2011 UAAL in exchange for a corresponding reduction in First 5's UAAL contribution rate over an 11-year period. This is because the UAAL prepayment amount is less than the outstanding UAAL balance on First 5's first and largest UAAL amortization layer (see above) that has 11 years remaining as of December 31, 2011.<sup>1</sup> Assuming that the prepayment is received before July 1, 2013, the rate reduction would be effective on July 1, 2013, which is the date that the contribution rates from the December 31, 2011 valuation become effective. Note that to determine the reduction in the UAAL it would be necessary for us to discount the \$2 million prepayment for approximately 1.5 years back to the December 31, 2011 valuation date using the current 7.75% investment return assumption.

We recommend that the reduction in First 5's UAAL contribution rate be based on amortizing the \$2 million as a <u>level percent of payroll</u> instead of as a <u>level dollar</u> amount. This is to be

<sup>&</sup>lt;sup>1</sup> If the UAAL prepayment amount was larger than the outstanding balance on the first amortization layer, then we would recommend that the excess portion be amortized over the period remaining for the next layer, etc.

Ms. Marilyn Leedom February 6, 2013 Page 3

consistent with the methodology used in the annual actuarial valuation where the UAAL is amortized as a level percent of payroll assuming payroll will grow at 4.25% per year.

The outstanding balance of the prepayment amount will be tracked separately over the 11-year period in a manner that is consistent with the procedure used to track the UAAL layers shown above. The dollar amount of the annual reduction due to the prepayment will be based on amortizing the outstanding balance of the prepayment amount using CCCERA's investment return and payroll growth assumptions in effect at each valuation date. The reduction in the UAAL contribution rate will then equal the dollar amount of reduction divided by First 5's payroll. This means that the reduction in First 5's UAAL contribution rate will vary over time based on the level of First 5's payroll.

Since the outstanding balance of the prepayment amount is tracked separately over the 11-year period based on CCCERA's investment return assumption in effect at each valuation date (currently, 7.75% per year), any gain or loss from investments that occurs during the 11-year period over which the prepayment is recognized will be pooled across all of the employers in Cost Group 1 and 2. Since the prepayment amount is relatively small compared to the overall assets of all employers in Cost Group 1 and 2 (roughly \$3 billion), the prepayment amount should not significantly increase the volatility of the UAAL contribution rates for those two cost groups.

We look forwarding to discussing this information with you.

Sincerely,

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

JZM/gxk

John Monroe, ASA, MAAA, EA Vice President & Associate Actuary



Creating a Brighter Future for I mita Costa s Children and Families

March 1, 2013

Marilyn Leedom Retirement Chief Executive Officer CCC Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520

Dear Ms. Leedom,

In response to your letter of March 29, 2012, which offered the possibility of First 5 making a contribution toward its pension unfunded actuarial liability (UAAL), I would like to submit the following proposal for consideration by the CCCERA Board: *We request a \$2 million payment towards our unfunded liability in exchange for a reduction in the amortization payment based on an 11 year level dollar amount.* 

As you know, the Contra Costa Children and Families Commission – which now is also known as First 5 Contra Costa – was created subsequent to the passage of Proposition 10 in November, 1998. Proposition 10 instituted a 50-cents-per-pack cigarette tax to support services for children 0-5 and their families in every California county. The Board of Supervisors created the Contra Costa Children and Families Commission as an independent public agency in 2000, allowing it to establish its own staff and agency policies and procedures.

Also in 2000, First 5 joined CCCERA for the purpose of providing its employees with pension benefits. At the time that First 5 joined CCCERA, only one of its employees had any prior service credit with CCCERA; all other employees were new to CCCERA.

First 5's situation is unique compared to other CCCERA participating agencies. First 5 brought little to no unfunded liability to the CCCERA system when it joined and still has no active retirees. Even so, First 5, like all other CCCERA members, continues to pay its normal contribution as well as the full contribution toward the UAAL, mostly incurred by other member agencies with significantly longer histories.

First 5 is also unique in that it depends, by design, on a declining revenue source. The framers of Proposition 10 anticipated that a secondary benefit of the cigarette tax would be to reduce cigarette consumption and the harmful effects of smoking. As a result of this and other state and federal taxes, cigarette consumption in California drops on average 2-3% each year. First 5's initial full year of tax revenue was \$14,764,000; in the 2012-13 fiscal year it is projected to be \$8,492,000.

As a result, First 5's current 25 employees are likely to be the most it ever has. The Commission's next strategic plan – which will address the fiscal years starting July, 2015, will have to call for reducing staff as Prop 10 revenue continues to drop.

Because of our unique situation, we have explored with you over the last several years a number of methods to mitigate the cost of the Commission's UAAL contribution. At this juncture the best remedy appears to be a prepayment of our future payments to take advantage of CCCERA's existing interest rate, as you proposed in your letter of last March.

In consultation with the Commission's actuary, John Bartel, and our Commissioners, we have discussed your proposal and reviewed several prepayment scenarios. At its November 5, 2012 meeting, the Commission authorized me to present to CCCERA the Commission's desire to pre-fund its UAAL with a payment of \$2 million to be amortized over 11 years at 7.75%. Our actuary also recommends that this pre-payment be amortized on a level-dollar basis as it is much more compatible with a declining revenue base than an increasing dollar amortization.

I understand the burdens that you and the Retirement Board must carry at this time. I very much appreciate the time and attention that you and your staff have provided us over the years as we, too, have grappled with the long-term implications of funding pension benefits for our employees. I hope that you and the Board will appreciate the unique and special nature of First 5's situation and look favorably on our request.

Thank you for considering our request. Please do not hesitate to contact me for any reason.

Sincerely,

Sean Casey Executive Director

cc: Ms. PJ Shelton, Commission Chair Mr. John Bartel



THE SEGAL COMPANY 100 Montgomery Street Suite 500 San Francisco, CA 94104-4308 T 415.263.8200 F 415.263.8290 www.segalco.com

March 19, 2013

Ms. Marilyn Leedom Chief Executive Officer Contra Costa County Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA 94520

# Re: Contra Costa County Employees' Retirement Association First 5 Children and Families Commission ("First 5") Proposal Regarding a \$2 Million Prepayment Towards Unfunded Actuarial Accrued Liability (UAAL)

Dear Marilyn:

As requested, we are providing additional information regarding First 5's proposed \$2 million UAAL prepayment. Our February 6, 2013 letter contained details on how the prepayment would be handled in the annual actuarial valuation. The information found in our letter confirmed that First 5's request was reasonable, except that we believed that the prepayment should be amortized as a level percent of payroll instead of as a level dollar amount as was originally requested by First 5.

First 5's March 1, 2013 letter to CCCERA formally submitted the following for consideration by the CCCERA Board:

"We request a \$2 million payment towards our unfunded liability in exchange for a reduction in the amortization payment based on an 11-year level dollar amount."

Their letter also provides further background on the potential issues associated with their ongoing level of employees and permanence as an employer as rationales behind their specific request.

Based on this new information, we believe that amortizing the prepayment amount as a level dollar amount is reasonable from an actuarial perspective.

Benefits, Compensation and HR Consulting Offices throughout the United States and Canada

Note that the California Actuarial Advisory Panel (CAAP) has recently issued guidelines regarding actuarial funding policies. In particular, Item 8. of the "Discussion" section under the "Amortization Policy" section in the CAAP document is shown below.

Level dollar amortization: fundamentally different from level percent of pay amortization.

 a. No level dollar amortization period is exactly equivalent to a level percent period.
 b. Plan and/or sponsor circumstances could determine appropriateness of level dollar method.

- i. Level dollar could be appropriate for plans where benefits are not pay related.
- *ii.* Could be appropriate for sponsors and plans that are particularly averse to future cost increases, e.g., utilities setting rates for current rate payers.
- *iii.* Could be appropriate for sponsors and plans that want an extra measure of conservatism or protection against low or no future payroll growth.
- *iv.* Could be useful as a step in developing amortization payments in proportion to some basis other than payroll.

In First 5's case, it appears that item iii. may apply here.

We do not anticipate that amortizing this amount as a level dollar amount will cause any unnecessary complication or disruption to the actuarial valuation process as compared to amortizing as a level percent of payroll. However, the Board should consider whether it is appropriate to grant this exception for this employer as compared to the other employers who have previously made UAAL prepayments or those that will make future UAAL prepayments.

Finally, First 5's letter mentions that the prepayment would be "...amortized over 11 years at 7.75%". Consistent with our February 6, 2013 letter, we will again note that these amounts are amortized using CCCERA's investment return assumption in effect at each valuation date. CCCERA's recently adopted investment return assumption of 7.25% is scheduled to be used in the December 31, 2012 actuarial valuation, and future valuations unless changed by the Board.

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. We look forward to discussing this information with you.

Sincerely,

Poul Crylo

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

John Momoe

John Monroe, ASA, MAAA, EA Vice President & Associate Actuary

/bqb



March 27, 2012

Contra Costa County

MEETING DATE March 27, 2013 AGENDA ITEM 6#

Agenda



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- ISS Overview
- Benefits of ISS' Benchmark Policies
- Board of Directors
- Executive Compensation
- Social and Environmental Issues
- Questions

# **ISS** Overview



- ISS is the leading global provider of proxy research & voting solutions, with 1,300 clients worldwide
- ISS governance experts cover 40,000+ meetings annually in over 100 markets
- More than 500 employees in fourteen offices in the U.S., Canada, Europe and Asia
- ISS' critical international scale and expertise allows for adaptability to evolving global regulatory changes.

- Full-service vote execution, reporting and disclosure through an integrated voting platform
- Turnkey securities class actions research and claims filing services
- Comprehensive proxy services for custodian banks including proxy distribution, meeting notification and power-of-attorney management
- Specialized M&A Research Services

Benefits
of ISS'
Benchmark
Policies



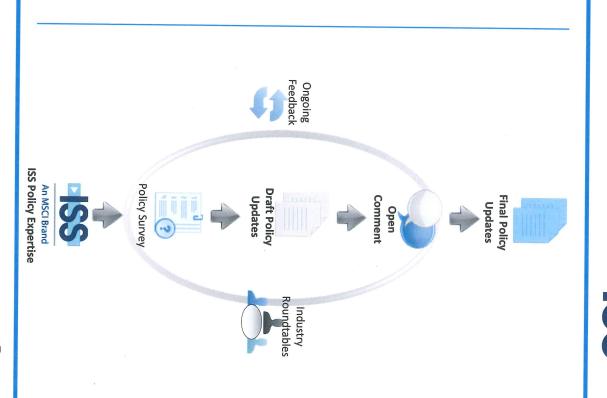
The ISS benchmark policies:

- represent broad-based market approach to governance
- capture current regulatory requirements
- are updated annually, following robust review
- approach to proxy voting allow boards of trustees to leverage industry expertise in their
- offer a cost-effective option

# **Rigorous and Inclusive Policy Formulation Process**

ISS collaborates with institutional investors, corporate issuers and industry experts to guide the development of voting policies in a fully transparent and extraordinarily extensive way

- Annual Policy Survey brings in perspectives from institutional investors, corporate issuers and governance experts. Offers all market constituents the ability to actively participate in ISS' policy development process.
- Extensive In-person Discussion Forums and roundtables augment the policy process
- Balanced Viewpoint through guidelines that strike the right balance between shareholder interests and economic practicality.
- Engagement with Issuers on behalf of shareholders ensures a full understanding of the facts and enriches our analysis.



ISS   Institutional Shareholder Services Inc.	<ul><li>Majority Voting</li><li>Proxy Access</li></ul>	Items Not Addressed:	<ul> <li>Removal of directors</li> </ul>	<ul> <li>Separate Chairman/CEO</li> </ul>	<ul> <li>Classified boards</li> <li>Cumulative voting</li> </ul>	<ul> <li>Director election:</li> <li>o board independence, director qualificat</li> </ul>	CCCERA Policy:	Board of Directors
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# **CCCERA Policy:**

- Stock option plans:
- o acceleration, director participation
- Employee stock ownership plans
- Golden Parachutes
- Shareholder proposals

Items Not Addressed:

- Management say on pay (Dodd-Frank Act)
- Say on pay frequency (Dodd-Frank Act)
- Say on golden parachutes (Dodd-Frank Act)

ISS   Institutional Shareholder Services Inc.	Workplace Safety	Water Use	Sustainability Reporting	<ul> <li>Political Contributions (Citizens United)</li> </ul>	Items Not Addressed:	emissions	o respect for laws, disclosure of liabilities, elimination/reduction of toxic	<ul> <li>Environmental issues:</li> </ul>	CERES Principles	Product safety	o child labor, sweatshops, slave labor, EEO, diversity, MacBride	Labor Issues:	CCCERA Policy:	Social and Environmental Issues
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Service Expertise Global Coverage Capabilities Quality

# <u>Memorandum</u>

Date:March 21, 2013To:CCCERA Board of RetirementFrom:Timothy Price, Retirement CIOSubject:Proxy Voting Guidelines



# **Recommendation**

Staff recommends CCCERA adopt one of the standard set of proxy voting guidelines offered by Institutional Shareholder Services (ISS). CCCERA has used ISS to vote our proxies in accordance with CCCERA's custom Benchmark for over a decade. ISS is one of the primary firms offering proxy voting services, and as such has access to the guidelines of most institutional investors. ISS has compiled these guidelines into best practices for various types of clients. Staff recommends considering the ISS Benchmark or Public Fund Proxy voting guidelines.

CCCERA has maintained custom proxy voting guidelines since 1990. The primary benefit of doing so will be to maintain compliance with the new requirements coming out of the Dodd-Frank legislation without having to continually revisit and amend our current guidelines. Our review of the ISS guidelines shows that they include substantially all of the issues addressed in the current CCCERA guidelines. The advantage of the ISS guidelines is that they encompass additional issues (more say-on-pay issues) and their language is much more specific on most issues. The final benefit is a projected cost savings of \$5,000 per year by moving to the ISS policies and not paying ISS for their current custom guideline voting service.

# **Overview**

CCCERA has maintained its own Proxy Voting Guidelines since 1990. The guidelines have been updated periodically, most recently in 2007. The past several revisions have been made primarily to bring CCCERA guidelines into alignment with ISS best practices. In speaking with other systems, best practice would generally be to update proxy voting guidelines annually **and** after every regulatory change. In light of the volume of rulemaking coming out of Dodd Frank legislation, it has become less practical to have staff do this. Staff believes this role is best outsourced to an expert in the field, such as ISS.

ISS continually monitors the evolving nature of legislative requirements and updates the standard ISS policies continually.

# **Dodd Frank Requirements**

The Dodd Frank legislation will lead to a vast collection of new rules designed to increase the transparency and accountability of the financial system. While the rulemaking process is still in its early days, there have been new rules written that pertain directly to plan sponsors, specifically in the areas of corporate governance and disclosure. These sections require plan sponsors to adopt rules regarding disclosure of pay-for-performance and pay ratios as well as propose and adopt rules regarding recovery of executive compensation. While CCCERA's current guidelines address these issues, the language is not specific or comprehensive enough to comply with the Dodd Frank requirements.

# Summary

The current CCCERA guidelines have served the Association well for over 20 years. However, we now face an expected wall of new rules while we lack the staff necessary to stay full apprised of these developments. As such, we recommend outsourcing this function to ISS in their capacity as our proxy voting service provider. The following pages show the high level differences between CCCERA's current policy and both the ISS Benchmark and Public Fund Policy. Staff believes both policies are viable for CCCERA.

# Summary of Key Differences

Issue	Current CCCERA	ISS Benchmark	ISS Public Fund		
Election of Directors and Related Matters	CCCERA policy primarily focused on ensuring Board competence, independence and attendance. Silent on proxy access to nominate Board.	Focused on Board competence, performance and independence. Vote FOR proxy access to nominate Board of Directors.	Similar to Benchmark Policy, but Public Fund Policy classifies directors who have served continuously for more than 10 years as Affiliated Outsiders.		
Anti-Takeover and Related Proposals	Supports Poison Pills with limited scope and duration.	Evaluated on a CASE- BY-CASE basis based upon the nature of the poison pill terms.	Similar to Benchmark policy.		
Capital Structure and Related Proposals	Vote FOR issuance of additional stock for clear and reasonable purposes.	Vote FOR issuance of more stock if the project that the additional stock will be used for is on the same ballot. Vote AGAINST proposals if company has multiple classes of common stock and new issuance will have superior voting rights.			
Compensation Issues	Strong focus on broad employee participation in stock option plans. Opposed to Golden Parachutes, but narrowly defined. Say on Pay (Dodd Frank) issues not addressed.	Alignment of pay and performance, focus on the presence of problematic compensation practices, shareholder value transfer. Say on Pay issues addressed.	Alignment of pay and performance. Higher bar on presence of problematic or excessive compensation practices, voting power dilution (15% limit), grant rate to the top 5 executives (15% limit)		

Social Responsibility Issues	laws.	basis for most social and environmental issues.	Generally support social, workforce and environmental shareholder-sponsored
	Endorses MacBride and	only when shareholder value is maximized.	resolutions.
		Generally vote	Generally vote FOR MacBride and CERES Principles.
		Principles not addressed.	