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Joseph P. Newton, FSA & Lewis Ward

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Gabriel Roeder Smith & Company Consultants & Actuaries www.gabrielroeder.com

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- Key Changes and Issues for 2012 Valuation
- Investment Performance
- Actuarial Valuation Results
- Open Group Projections
- Projection of Funded Status
- Projection of Alternative Returns
- GASB Update

ACTUARIAL VALUATION – KEY CHANGES AND ISSUES

• 2012 investment performance below expectations

- -0.6% return on market value of assets
- ► Expected 7.75%
- 2011 Legislature created new benefit tier for employees hired after June 30, 2012
 - Not yet reflected in liabilities, but is reflected in funding period calculation
- 2011 Legislature created schedule of increasing Employer Contributions over next few years
- 2012 Legislature removed non-base pay from definition of compensation for employees hired after June 30, 2012
 - Impacts funding period because loss of contributions is felt before loss of benefits



- Negative Experience on two of three potential sources
 - *Investments* underperformed 7.75% assumption (Negative)
 - Liabilities grew slower than expected, mostly due to lower than anticipated salary increases (Positive)
 - Contributions in dollars are expected to be smaller in the future than projected from last year (Negative)
 - Elimination of contributions (and benefits) on non-base pay for employees hired after June 30, 2012
 - Lower than anticipated salary increases mean smaller pays (and contributions) in the future if the rates remain the same

Estimated Yields on Market Value of Assets



4.9% average return for 10 year period ending June 30, 2012

Market and Actuarial Values of Assets

\$ Billions



AVA is 108.5% of MVA at 2012, compared to 102.6% % at 2011

AVA is deferring \$957 million is investment losses compared with \$300 million last year

Actuarial Valuation Results

	2010 Valuation	2011 Valuation	2012 Valuation	
Based on Smoothed Asset Value				
UAAL (\$ Billions)	\$7.14	\$8.15	\$8.44	
Actuarial Funded Ratio	61.4%	59.4%	59.2%	
Funding Period in years*	41	25	30	
30 Year GASB ARC	16.90%	18.56%	18.64%	
Based on Market Value				
Actuarial Funded Ratio	53.1%	57.9%	54.6%	
30 Year Employer ARC	19.25%	18.67%	20.08%	







Projection of Funded Ratio from 6/30/2012 Valuation



Assumes all assumptions are met, including 7.75% return on actuarial value of assets 2012 Projection recognizes new salary definition for new hires after 6/30/2012

Projected P&F Payroll





- With the lower overall salary available for contributions, the contribution rates on those lower salaries will likely need to be increased to get back to similar dollar amounts as before
- For example, to get a 30-year funding period the employer contribution rate for police and fire employees would need to increase beyond the current schedule, perhaps to 27%. However, this 27% will be applied to a smaller overall payroll base, so the net dollars will still be lower than if the definition of salary had never been made

Projected P&F ER Contributions



Projected Funding Period



Projected Funding Period, with an extended contribution policy





 With the higher contribution policies and the new benefit structure for future employees, the System has been put in a position where a significant amount of adverse experience can be absorbed over the longer term



Sensitivity to Future Investment Returns: Funding Period, based on current contribution policy



Assumes all other assumptions met Assumes 7.75% return after FY2022 in all scenarios **Basic Retirement Funding Equation**

$\mathbf{C} + \mathbf{I} = \mathbf{B}$

Where

- C is Contribution Income
- I is Investment Return
- B is Benefits Paid

"Money In = Money Out"









GASB UPDATE



What has GASB done?

- The Statements change current pension accounting and financial reporting standards for state and local governments
 - Disconnect pension accounting from pension funding
 - Require employers to recognize the Net Pension Liability (NPL) on their balance sheets (where NPL is code for the Unfunded Accrued Liability based on Market Value of Assets)
 - Require employers to recognize a new measure of the Pension Expense (PE) on their income statements, which would be different from their actuarially determined contributions (ARC)
 - Replace most of the current note disclosures and required supplementary information with information based on the new measures



• GASB 67 Plan Reporting

- Effective for fiscal years beginning after June 15, 2013
- ▶ For Hawaii ERS, June 30, 2014 financial statements
- GASB 68 Employer Reporting
 - ► Effective for fiscal years beginning after June 15, 2014
 - ▶ For the State, June 30, 2015 financial statements
 - Local employers could be various



- There will be a liability on the governments' books that is larger than ever seen
 - It will encompass all systems
 - This will be a "bumpy" liability; changing each year with a new blended discount rate and change in market value of assets
- There will be an expense on the governments' books-a larger expense than ever seen
 - The shorter amortization will accelerate recognition of pension cost
- The changes only impact the accounting rules, but



	GASB 25/27	GASB 67/68	
Liability	Up to six allowable actuarial cost methods	Only Individual Entry Age allowed	
Asset Offset	Various asset smoothing methods allowed	Fair market value	
Expense	Various amortization periods and methods allowed	Rigid rules for Pension Expense components	
LTeROR	Flexible on plan's return assumption	Still flexible on plan's return assumption	

Cost-Sharing Plans Proportionate Shares



- Cost-Sharing Plan "A multipleemployer defined benefit pension plan in which the pension obligations to the employees of more than one employer are pooled and pension plan assets can be used to pay the benefits of the employees of any employer that provides pensions through the pension plan."
- Under GASB 27, employers in a costsharing plan report the contractually required contribution in their financial statements
- Under GASB 68, employers in costsharing plans will have to report their proportionate share of the collective Net Pension Liability

Nonemployer Contributing Entities

- Legally required to contribute *directly to* the pension plan of another entity
- Classification
 - "Special funding situations" (SFSs)
 - Other circumstances
- SFS reporting requirements
 - ▶ NECE—similar to cost-sharing
 - Employers—liability reduced by measure of NECE involvement
 - Could eliminate it completely



 Each employer will be allocated a proportionate share of the NPL, based on proportion of contributions



Notables:

State will have 74% (\$6,984 M)
Next largest is 15% (\$1,412 M)

Determining the Discount Rate

- Discount rate used in determining the Total Pension Liability (TPL) is a blend of two rates:
 - Long-term expected rate of return on pension plan investments
 - This rate is generally consistent with the funding valuation
 - 7.75% for ERS
 - Yield or index rate for a 20-year, tax-exempt general obligation municipal bond
 - Will vary
 - ~4.0%
- Weight given to the long-term rate is based on a closed group projection

Determining the Discount Rate

• The premise...

- The pension plan is primarily responsible for paying pension benefits to the extent the plan has sufficient assets
 - Assets invested with long-term investment horizon
- The employer is primarily responsible for paying benefits to the extent the plan does not have sufficient assets
 - From the general fund or bond revenues

Illustration – Other Client



Funding Policy will dictate the discount rate

• By having a stronger funding policy, the crossover date is pushed back, which will increase the blended discount rate and lower the NPL on the balance sheet



•Many plans contribute:

Normal cost PLUS *closed* amortization payments

These <u>probably</u> have discount rates = LTeROR

•Many plans contribute:

- Normal cost PLUS open amortization payments
- These <u>almost always</u> have discount rates less than LTeROR

• Other plans:

- ► A flat statutory percent of pay, or
- Target cost methods, or
- Pursuant to a more complex model

These <u>might</u> have discount rates lower than LTeROR

Attention to Funding Policy

 Plans and employers should get together to draft funding policies because:

- ▶ No more ARC, a current de facto funding standard
- Required Supplementary Information (RSI) section of the CAFR will include the disclosure of an Actuarially Determined Employer Contribution (ADC), if one is calculated, and compare it to the actual employer contribution made. This will become the source for researchers to find out whether a plan's funding policy requires contributions that are reasonable/systematic/actuarially based
- The funding policy is the primary driver of whether and when there is a cross-over date for lowering the discount rate
- Just because it is the right thing to do.



- By preparers of plan CAFRs
- By preparers of employer CAFRs
- By actuaries (likely two reports)
- By auditors



Communication Challenges

Explaining:

- The new very large liability on balance sheet
- The annual changes in liability and pension expense, e.g., explaining why pension expense number is actually pension income in some years
- Why accounting numbers do not equal funding numbers; which ones are right?
- Why it costs so much to prepare

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