

## City of Houston COH PENSION SYSTEMS

**Budget & Fiscal Affairs Committee** 

**December 11, 2012** 

## **Finance Department**

Craig Mason, Chief Pension Executive



## **COH PENSION SYSTEMS - Agenda**

- Status of compliance with state mandated independent actuarial audits of fund actuaries' reports
- Review the COH pension plans in context with an NIRS study
- Illustration of estimated financial impact on the City of possible changes in assumptions and benefits presented in the Long Term Financial Management Task Force "menu of options"
- Illustration of the estimated financial impact on the City of new GASB rules for financial reporting and disclosure

\*National Institute on Retirement Security - "Lessons From Well-Funded Public Pension Plans", June 2011



# Status of Compliance with State Mandated Independent Actuarial Audit Requirement

- ➤ The City has engaged Retirement Horizons Inc. (RHI) to perform the audits
- ➤ The City has requested census data from the pension funds to allow RHI to perform the audits
- The pension funds have declined to furnish the requested census data
- RHI has created hypothetical databases from available published information
  - Insufficient for replication audit purposes
  - Sufficient for relative value analysis of plan/assumption changes



## Review of COH Plans in Context with NIRS Study

- ➤ National Institute on Retirement Security (NIRS)\* identified common features of well managed public pension plans:
  - 6 plans analyzed over a 10 year period beginning in 2000
  - Through 2 significant economic downturns
  - Plans remained affordable and sustainable
- > The common features identified by NIRS are:
  - Funding based on a "reasonable" assumed investment return rate
  - Cost of Living Adjustments (COLAs) granted "responsibly"
  - Funding based on the actuarially determined contribution amounts
  - Employees share in cost of the plan
  - Benefit improvements actuarially valued before adoption
  - Provisions included to prevent benefit spiking



<sup>\*</sup>National Institute on Retirement Security – "Lessons From Well-Funded Public Pension Plans", June 2011

### "Reasonable" Assumed Investment Return Rates

- > COH plans use 8.5% as determined by pension boards
- > NIRS study plans as compared with COH Plan
  - 2 use 7.25%
  - 1 uses 7.5%
  - 3 use 8.00%
- > From National Association of State Retirement Administrators (NASRA) Issue Brief in July 2012
  - 126 plans surveyed
  - 122 use less than 8.5%, and 4 use 8.5%
  - Average weighted by size of 7.68%
  - 45 reduced assumption since 2008

### Topic for discussion with pension boards:

Does an investment return assumption of 8.5% produce a reasonable estimate of the actual cost of the plans so that current City funding levels are not expected to increase?



# Historical Investment Return Rates Achieved by COH Plans

For the number of years ended June 30, 2012

	HFRRF	_	<b>HMEPS</b>	<u> </u>		<u>HPOPS</u>
Demonted by	Antonial	Reported by	Actuarial		Reported by	Actuarial
Reported by No. of years	Actuarial Pension board Pension board	Rate			Pension board	Rate
1 0.9%	3.0%	1.9%	2.8%	1.6%		-0.4%
5 1.3%	3.1%	3.4%	2.9%	3.1%		2.7%
10 7.2%		Ω 0%	_	Ω 50/2		8.2%
15 6.0%	RETURNS	CONTRIBUTION			*	6.8%
20			A CONTRACT	THE ASSESSMENT	1	8.4%
8.1%	PENSION FUNDS	ISSA.	YONE JETS ON NG WE THIS UP?		Mrs. 3	
	1111		A STAN			

<sup>\*</sup> Cartoon: Pensions and investments magazine



<sup>•</sup> Rates reported by the pension board are net of investment management expenses only

<sup>•</sup> Actuarial rates are net of investment management and plan administrative expenses, comparable to 8.5% assumption

# Granting Cost of Living Adjustments (COLAs) "Responsibly"

#### > COLAs are automatically granted annually in COH plans but differ in calculations

- HPOPS is based on 80% of CPI, min 2.4% max 8.0%, compounded
- HFRRF in DROP increase up to 20% at retirement plus 3% per year thereafter, compounded
- HFRRF not in DROP 3% per year, compounded
- HMEPS 3% (2% if hired between 1/1/05 and 1/1/08), not compounded; none for employees hired after 1/1/2008

#### > NIRS study plans

- 4 plans are ad-hoc
- 1 plan is limited to 50% CPI on first \$18,000 annual benefit
- 1 plan is limited to lesser of 50% of CPI or 3%

### >From NASRA study, several states have changed COLA provision since 2009 to reduce plan liabilities

- 11 states reduced COLAs for current retirees
- 5 states reduced COLAs only for current and future active employees
- 5 states reduced COLAs only for future hires

#### Topic for discussion with pension boards:

Would it be more responsible from a fiduciary perspective to take into consideration actual increases in the cost of living and/or the financial health of the plan and the plan sponsor before granting COLAs?

# Funding Based on Actuarially Determined Contribution Amounts

- > Funding policies for COH plans target future contributions equal to actuarially determined amounts
  - Negotiated schedule of increasing contributions at HMEPS and HPOPS
  - Actuarially determined amounts adjusted every 3 years at HFRRF

### Topic for discussion with pension boards:

2 of the 3 pensions boards have recognized the fiscal stress placed on the City by contributing actuarially determined amounts and have negotiated reduced contributions; however, benefit security remains in jeopardy over the long-term due to the unsustainable future actuarially determined contributions.

What steps can be taken to enhance benefit security with sustainable funding levels over the long-term?



## **Employee Cost Sharing**

### > COH plans have employee cost sharing features

- Employee contributions based on a fixed percent of pay, or
- Lower benefit levels for non-contributory groups in HMEPS

### > COH employee contributions as a percent of pay

- 5% to HMEPS + 6.2% to social security for HMEPS contributory plan members
- 6.2% to social security for HMEPS non-contributory plan members
- 9.0% for HPOPS members hired prior to 10/09/2004
- 10.25% for HPOPS members hired after 10/09/2004
- 9.0% for HFRRF members

### Employee (EE) contribution share of cost negated by corresponding increase in benefits in DROP at HPOPS and HFRRF

### **Topic for discussion with pension boards:**

- Should employee contributions be based on a percentage of the total actuarially determined contributions?
- Should the corresponding increase in DROP benefit be discontinued to avoid negating the cost sharing of employee contributions?



# Advance Actuarial Valuations of Benefit Improvements

- ➤ City has relied on pension funds to provide advance actuarial valuations of benefit improvements
  - Cost of benefit improvements were underestimated at HMEPS and HFRRF
  - No advance valuation of the impact on pension costs of other bargained compensation changes at HPOPS

### Topic for discussion with pension boards:

To avoid miscommunication of actuarial results which have significant impact on the City, should the actuarial process be a more collaborative process managed jointly by the City and the pension boards?



## **Anti-Benefit Spiking Provisions**

### > HMEPS and HPOPS have implemented anti-benefit spiking provisions

- Benefits are based on "final" 3 year average compensation
- Compensation excludes overtime and other non-regular forms of pay

### HFRRF provisions are subject to benefit spiking

- Benefits based on highest average of "any" 3 years non-consecutive compensation
- Compensation includes overtime

### Topic for discussion with pension boards:

Should HFRRF implement anti-benefit spiking provisions similar to HMEPS and HPOPS?



# Illustration of the Financial Impact to the City of Possible Changes in Assumptions and/or Benefits

- ➤ Changes were indentified by the Long Range Financial Management Task Force (LRFMTF) for impact analysis
  - Lowering of the investment return rate assumption from current 8.5%
  - Elimination of future automatic COLAs
  - Replacing future DROP account accruals with basic formula accruals based on salary and service
  - Illustrated impact analysis is strictly for informational purposes. Actual implementation of changes would differ in timing and design.



# Estimated Impact of Changes in the Investment Return Assumption

Assumed Rate
HFRRF
HPOPS
HMEPS
TOTALS

Unfunded Accrued Liability					
8.5%	7.5%	4.5%			
\$336	\$712	\$2,389			
\$770	\$1,184	\$3,129			
<u>\$1,461</u>	\$1,900	\$3,896			
\$2,567	\$3,796	\$9,414			

Actuarially Determined City Contribution FY2013							
9	\$ Amount			% of Payroll			
8.5%	7.5%	4.5%		8.5%	7.5%	4.5%	
\$73	\$110	\$258		26.9%	40.5%	95.1%	
\$127	\$165	\$321		32.7%	42.6%	82.6%	
<u>\$130</u>	<u>\$154</u>	<u>\$236</u>		23.8%	28.1%	43.1%	
\$330	\$429	\$815					

(\$ Amounts in millions)

### <u>NOTES</u>

- 1) Amounts at 8.5% are from the funds' actuarial valuations as of 7/1/2011
- 2) Amounts at 7.5% and 4.5% are estimated by applying the % changes from the RHI valuations based on imputed data from published information to the 8.5% amounts
- 3) The 4.5% rate is a proxy for a high quality corporate bond rate, which is required for measuring liabilities of private sector plans



# Estimated Impact of Eliminating Future Automatic COLAs

#### Current

	Actuarially Determined City Contribution FY2013				
Unfunded Accrued Liability	\$ Amount	% of Payroll			
\$ 336	\$ 73	26.9%			
\$ 770	\$ 127	32.7%			
<u>\$ 1,461</u>	<u>\$ 130</u>	23.8%			
\$ 2,567	\$ 330				

#### No COLAs

	Actuarially Determined City Contribution FY2013			
Unfunded Accrued Liability	\$ Amount	% of Payroll		
\$ (355)	\$ 10	3.7%		
\$ 171	\$ 68	17.4%		
\$ 809	<u>\$ 86</u>	15.6%		
\$ 625	\$ 164			

(\$ Amounts in millions)

**HFRRF** 

**HPOPS** 

**HMEPS** 

**Totals** 

#### NOTES:

- 1) Current amounts are from the funds' actuarial valuations as of 7/1/2011 based on an 8.5% assumed rate of return
- 2) No COLA amounts are estimated by applying the % changes from the RHI valuations based on imputed data from published information to the current amounts
- 3) The actual City contribution to HFRRF is subject to a statutory minimum of 18% of payroll (2 times the employee contribution rate of 9% of pay)



# Estimated Impact of Replacing Future DROP Accruals with Basic Formula Accruals

#### Current

	Actuarially Determined City Contribution FY2013			
Unfunded Accrued Liability	\$ Amount	% of Payroll		
\$ 336	\$ 73	26.9%		
\$ 770	\$ 127	32.7%		
<u>\$ 1,461</u>	<u>\$ 130</u>	23.8%		
\$ 2,567	\$ 330			

### **DROP Change**

	Actuarially Determined City Contribution FY2013			
Unfunded Accrued Liability	\$ Amount	% of Payroll		
\$ 245	\$ 62	23.9%		
\$ 584	\$ 81	20.9%		
\$ 1,250	<u>\$ 116</u>	21.2%		
\$ 2,079	\$ 259			

(\$ Amounts in millions)

**HFRRF** 

**HPOPS** 

**HMEPS** 

**Totals** 

#### NOTES:

- 1) Current amounts are from the funds' actuarial valuations as of 7/1/2011 based on an 8.5% assumed rate of return
- DROP change amounts are estimated by applying the % changes from the RHI valuations based on imputed data from published information to the current amounts



## New GASB Rules for Financial Reporting and Disclosure

- ➤ Effective for FY2015
- > No longer direct relationship between funding and financial reporting
  - Different assumed discount rates
  - Fair value vs. "smoothed" value of assets
  - Financial reporting more volatile than funding
- ➤ Increase in pension liability on the City's balance sheet

Fiscal Year ending 6/30/2011 (\$ millions)	HFRRF	HPOPS	HMEPS
Current GASB 27 Employer Accounting			
Actuarial Accrued Liability	\$3,558.2	\$4,488.1	\$3,790.3
Actuarial Value of Assets	\$3,222.3	<b>\$3,718.0</b>	\$2,328.8
Unfunded Actuarial Liability	<u>\$335.9</u>	<u>\$770.1</u>	<u>\$1,461.5</u>
Net Pension Obligation (Asset)	(\$0.5)	\$480.7	\$388.2
New GASB 68 Employer Accounting (8.5% Interest)			
Total Pension Liability	\$3,558.2	\$4,488.1	\$3,790.3
Plan Fiduciary Position	<b>\$3,203.1</b>	<b>\$3,530.6</b>	\$2,129.4
Net Pension Liability	\$355.1	\$957.5	\$1,660.9
New GASB 68 Employer Accounting (7.5% Interest)			
Total Pension Liability	\$3,871.1	\$5,178.8	\$4,315.4
Plan Fiduciary Position	\$3,203.1	\$3,530.6	\$2,129.4
Net Pension Liability	\$668.0	\$1,648.2	\$2,186.0



