Pension & OPEB Primer

Dan Matusiewicz, Finance Director City of Newport Beach



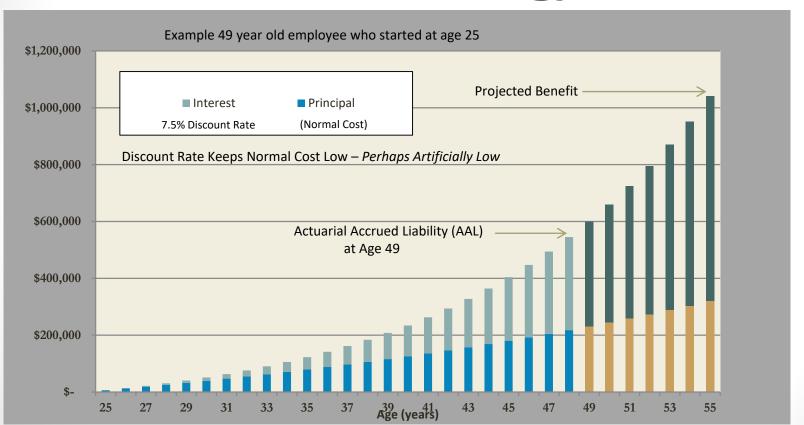
Discussion roadmap

- Review Terminology
- Examination of Amortization Bases & Efficiency
- Current Plan Status
- Preliminary Staff Recommendations

Terminology

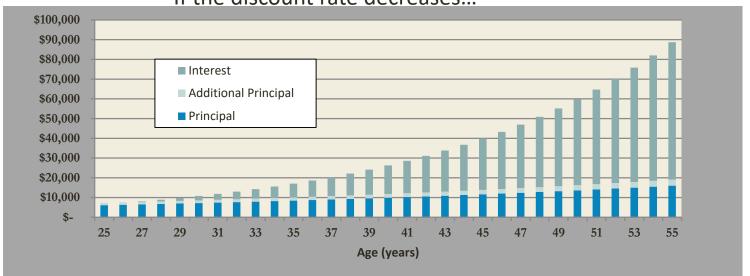
- Normal Cost (NC)
- Projected Benefits
- Present Value of Projected Benefits (PVB)
- Actuarial Accrued Liability (AAL)
- Market Value of Assets (MVA)
- Unfunded Actuarial Accrued Liability (UAAL)
 - AAL-MVA = UAAL
 - Same as UAL, Unfunded Pension Liability
- Gains/Losses vs. Change in Actuarial Assumptions
- Amortization Schedules 3 Primary Types

Terminology



Change in Assumption

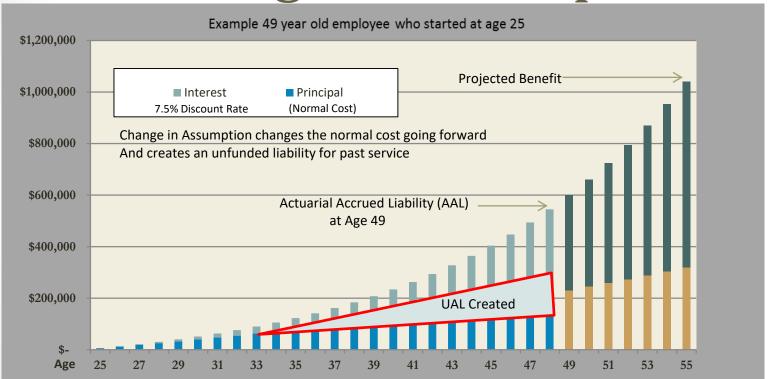




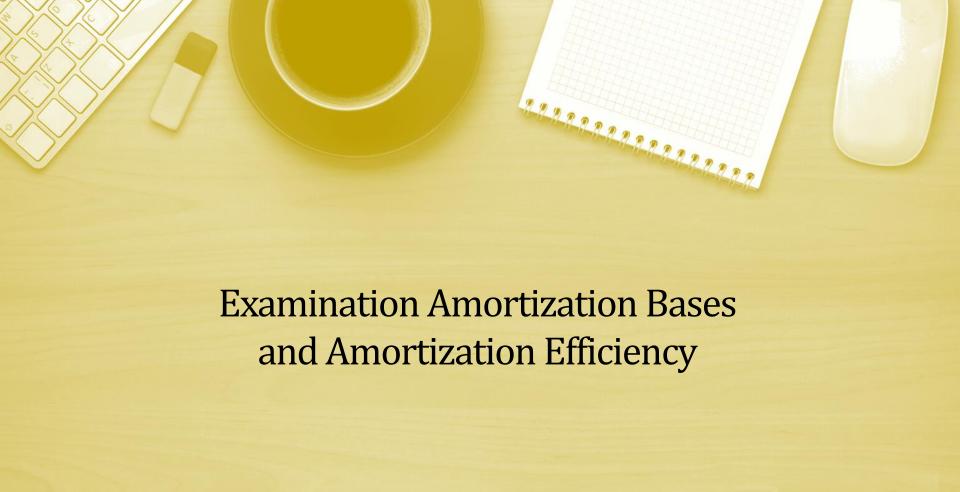
... additional "normal cost" contributions are needed to fund the predefined benefit



Change in Assumption

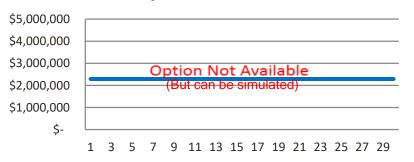


^{*}More Contributions required to make up for lower assumed investment earnings or other assumption change.

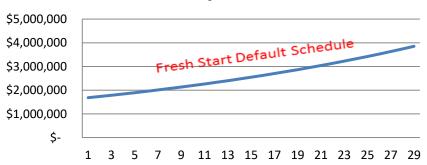


Amortization schedules

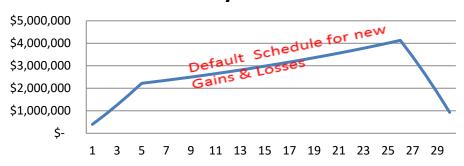
Level Payment Amortization



Level % of Pay Amortization



Level % of Pay - 5Yr Phase-in



Other City Example

CALPERS ACTUARIAL VALUATION - June 30, 2014

Schedule of Amortization Bases

						_	Amoui	nts for Fiscal 201	<u>l6-17</u>
		Amorti-		Expected		Expected		Scheduled	Payment as
	Date	zation	Balance	Payment	Balance	Payment	Balance	Payment for	Percentage of
Reason for Base	Established	Period	6/30/14	2014-15	6/30/15	2015-16	6/30/16	2016-17	Payroll
FS 30-YEAR AMORTIZATION	06/30/08	24	\$(4,760,389)	\$(307,896)	\$(4,798,185)	\$(317,133)	\$(4,829,238)	\$(326,647)	(0.737%)
ASSUMPTION CHANGE	06/30/09	15	\$10,557,847	\$886,978	\$10,430,047	\$913,587	\$10,265,074	\$940,995	2.122%
SPECIAL (GAIN)/LOSS	06/30/09	25	\$11,727,208	\$743,250	\$11,836,131	\$765,547	\$11,930,105	\$788,514	1.778%
SPECIAL (GAIN)/LOSS	06/30/10	26	\$(1,985,365)	\$(123,450)	\$(2,006,272)	\$(127,154)	\$(2,024,906)	\$(130,969)	(0.295%)
ASSUMPTION CHANGE	06/30/11	17	\$11,462,630	\$894,394	\$11,395,000	\$921,226	\$11,294,477	\$948,863	2.140%
SPECIAL (GAIN)/LOSS	06/30/11	27	\$(5,269,530)	\$(321,832)	\$(5,331,062)	\$(331,487)	\$(5,387,199)	\$(341,431)	(0.770%)
PAYMENT (GAIN)/LOSS	06/30/12	28	\$1,857,636	\$111,552	\$1,881,299	\$114,899	\$1,903,267	\$118,346	0.267%
(GAIN)/LOSS	06/30/12	28	\$70.991.591	\$4,263,082	\$71.895.902	\$4,390,975	\$72,735,435	\$4,522,704	10.199%
(GAIN)/LOSS	06/30/13	29	\$61,329,437	\$(281,811)	\$66,221,333	\$931,405	\$70,222,231	\$1,918,695	4.327%
ASSUMPTION CHANGE	06/30/14	20	\$33,710,124	\$(689,286)	\$36,953,050	\$(709,964)	\$40,460,635	\$770,682	1.738%
(GAIN)/LOSS	06/30/14	30	\$(58.432.251)	\$(322,812)	\$(62,479,971)	\$(406,772)	\$(66,744,219)	\$(938,760)	(2.117%)
TOTAL			\$131,188,938	\$4,852,169	\$135,997,272	\$6,145,129	\$139,825,662	\$8,270,992	18.651%

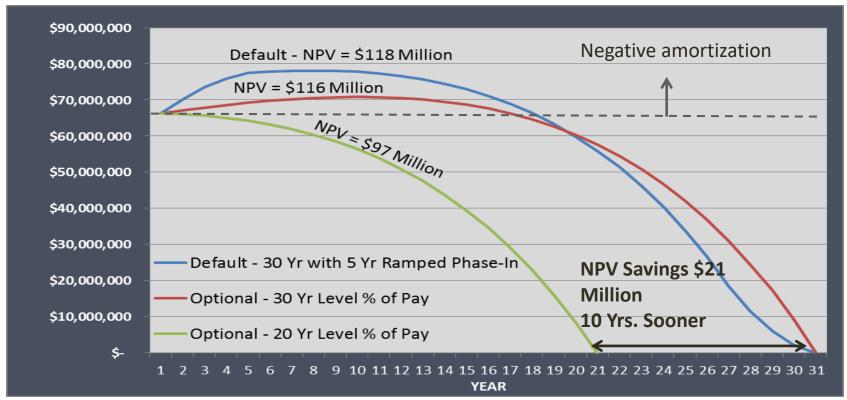
CHANGE IN MORTALITY ASSUMPTION

18.4% INVESTMENT GAIN

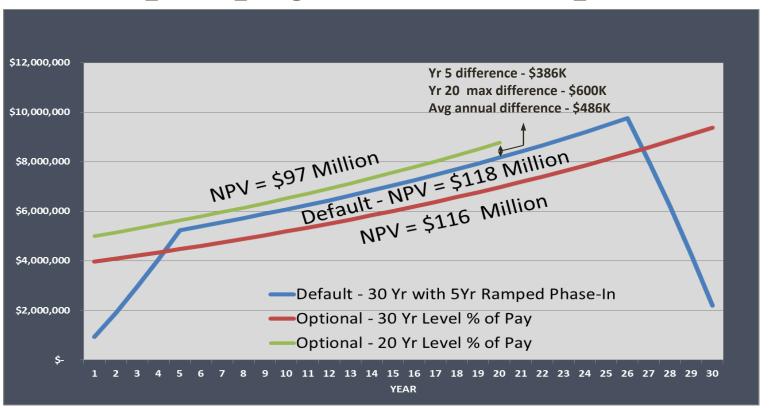
[Default - 30	Yr, 5	Υr	Ramps	Optional - 30	Yr, Le	vel	% of Pay		Default - 20 Yr, with 5 Yr Ramps					Optional - 20 Yr, Level % of pay			
I			Period		Payment	Balance	Period		Payment			Period		Payment		Balance	Period		Payment
1	\$	66,221,333	30	\$	931,405	\$ 66,221,333	30	\$	3,976,626	\$	66,221,333	20	\$	1,261,363	\$	66,221,333	20	\$	5,000,070
2	\$	70,222,231	29	\$	1,918,695	\$ 67,064,879	29	\$	4,095,925	\$	69,880,124	19	\$	2,598,408	\$	66,003,750	19	\$	5,150,072
3	\$	73,499,553	28	\$	2,964,384	\$ 67,848,000	28	\$	4,218,803	\$	72,427,046	18	\$	4,014,541	\$	65,614,3	Yr 8	\$	5,304,574
4	\$	75,938,481	27	\$	4,071,087	\$ 68,562,453	27	\$	4,345,367	\$	73,696,710	17	\$	5,513,303	\$	65,035,4	7	\$	5,463,712
5	\$	77,412,874	26	\$	5,241,525	\$ 69,199,265	26	\$	4,475,728	\$	73,507,649	16	\$	7,098,377	\$	64,248,263	16	\$	5,627,623
6	\$	77,784,311	25	\$	5,398,770	\$ 69,748,676	25	\$	4,609,999	\$	71,660,969	15		7,311,328	\$	63,232,039	15	\$	5,796,452
7	\$	78,020,570	24	\$	5,560,734	\$ 70,200,078	24	\$	4,748,299	\$	69,454,995	14		7,530,668	\$	61,964,553	14	\$	5,970,345
8	\$	78,106,622	23	\$	5,727,556	\$ 70,541,942	23	\$	4,890,748	\$	66,856,156	13		7,756,588	\$	60,421,709	13	\$	6,149,456
9	\$	78,026,163	22	\$	5,899,382	\$ 70,761,752	22	\$	5,037,471	\$	63,828,166	12		7,989,286	\$	58,577,446	12	\$	6,333,939
10	\$	77,761,515	21	\$	6,076,364	\$ 70,845,922	21	\$	5,188,595	\$	60,331,811	8 Yrs.	\$	8,228,965	\$	56,403,586	11	\$	6,523,957
11	\$	77,293,521	20	\$	6,258,655	\$ 70,779,717	20	\$	5,344,253	\$	56,324,724		\$	8,475,834	\$	53,869,672	10	\$	6,719,676
12	\$	76,601,424	19	\$	6,446,414	\$ 70,547,156	19	\$	5,504,580	\$	51,761,147	9	\$	8,730,109	\$	50,942,789	9	\$	6,921,266
13	\$	75,662,746	18	\$	6,639,807	\$ 70,130,923	18	\$	5,669,718	\$	46,591,664	8	\$	8,992,012	\$	47,587,377	8	\$	7,128,904
14	\$	74,453,154	17	\$	6,839,001	\$ 69,512,253	17	\$	5,839,809	\$	40,762,923	7	\$	9,261,772	\$	43,765,024	7	\$	7,342,771
15	\$	72,946,313	16	\$	7,044,171	\$ 68,670,829	16	\$	6,015,004	\$	34,217,332	6	\$	9,539,625	\$	39,434,254	6	\$	7,563,055
16	\$	71,113,735	15	\$	7,255,496	\$ 67,584,653	15	\$	6,195,454	\$	26,892,738	5	\$	9,825,814	\$	34,550,281	5	\$	7,789,946
17	\$	68,924,607	14	\$	7,473,161	\$ 66,229,919	14	\$	6,381,317	\$	18,722,072	4	\$	8,096,471	\$	29,064,764	4	\$	8,023,645
18	\$	66,345,614 63,340,747	13	\$	7,697,356	\$ 64,580,872 \$ 62,609,658	13	\$	6,572,757	\$	11,731,628	3	\$	6,254,524	\$	22,925,529	3	\$	8,264,354
19	_	59.871.091	12	\$	7,928,276		12	\$	6,769,940	\$	6,126,672	2	\$	4,294,773	\$	16,076,279	2	\$	8,512,285
20 21	\$ \$			\$ \$	8,166,125 8,411,108	\$ 60,286,160 \$ 57,577,822	17 Yrs.	\$ \$	6,973,038 7,182,229	\$ \$	2,133,257	1	\$ \$	2,211,808	\$	8,456,276	1	\$	8,767,653
22	\$	51,365,87	.8 Yrs.	\$	8,663,442	\$ 54,449,465	9	ъ \$	7,102,229	Ф	(0)		Ф						
23	\$	46,235,870	8	\$	8,923,345	\$ 50,863,081	8	\$	7,619,627										
24	\$	40,451,639	7	\$	9,191,045	\$ 46,777,615	7	\$	7,848,215					<0 Vr					
25	\$	33,956,034	6	\$	9,466,777	\$ 42,148,733	6	\$	8,083,662					۱۰۰ ۱	15	30 v.			
26	\$	26,687,373	5	\$	9,750,780	\$ 36,928,569	5	\$	8,326,172					NPV C	_ `	γ_{r}			
27	\$	18,579,103	4	\$	8,034,643	\$ 31,065,454	4	\$	8,575,957					20 Yr. V NPV Sa \$211	V_{i}	has			
28	\$	11,642,040	3	\$	6,206,761	\$ 24,503,621	3	\$	8,833,236					\$21 <i>1</i>	٠.	'8 5			
29	\$	6,079,886	2	\$	4,261,976	\$ 17,182,899	2	\$	9,098,233										
30	\$	2,116,967	1	\$	2,194,918	\$ 9,038,368	1	\$	9,371,180										
	\$	-				\$ -													
				\$1	90,643,158	Sum of Payme	nts	\$1	89,189,635				\$	134,985,569		Sum of Pay	ments	\$	134,353,756
				\$1	17,556,017	NPV @ 3%		\$1	15,824,058					\$97,969,960		NP\	/ @ 3%		\$97,088,739

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Example balance comparison



Example payment comparison



Amortization Efficiency

Amortization Efficiency Ratio (AER)© Interest as % of Principal Interest as % of Total Payments

	30 Year Amortization							
	5 Yr	Level %	Level \$					
	Ramps	of Pay	Payment					
9	2.88	2.86	2.45					
ıl	188%	186%	145%					
S	65.3%	65.0%	59.2%					

20 Year Amortization								
5 Yr Ramps	Level % of pay	Level \$ Payment						
2.04	2.03	1.90						
104%	103%	90%						
50.9%	50.7%	47.4%						

Least Cost Effective

Most Cost Effective

Amortization Efficiency Comparison

City	UAL Balance	Total Payments	AER*	Interest as % of Principal	Interest as % of Total Payments
Newport Beach	\$ 272,977,868	\$ 467,100,918	171%	71%	42%
Irvine	\$ 115,178,121	\$ 211,629,106	184%	84%	46%
Anaheim	\$ 609,881,577	\$ 1,303,628,563	214%	114%	53%
Long Beach	\$ 963,327,181	\$ 2,126,017,847	221%	121%	55%
Santa Ana	\$ 527,005,976	\$ 1,167,087,776	221%	121%	55%
Costa Mesa	\$ 255,359,653	\$ 566,799,114	222%	122%	55%
Huntington Beach	\$ 359,407,114	\$ 810,431,873	225%	125%	56%

^{*}Amortization Efficiency Ratio (AER)

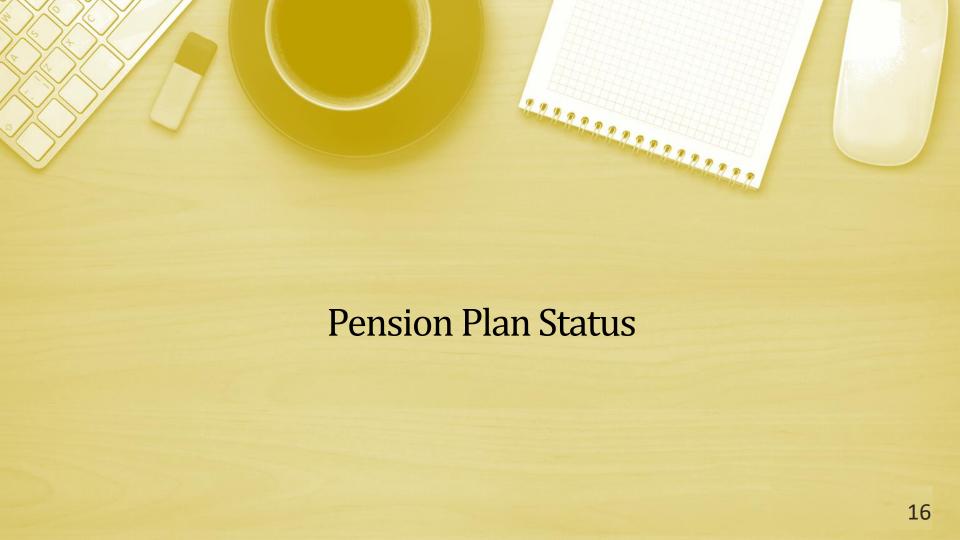
Newport's Amortization Bases

Per Actuarial Valuations

	Payment Diff	Illustrative
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						Minimum	Level		Level	Level
				Balance		Contribution	% of pay		% of pay	Pmt
Reason For Base	Date Established	Yrs	6/30/2015	6/30/2016	6/30/2017	2017-18	30		20	20
MISCELLANEOUS										
Forced Fresh Start Old Method	6/30/2013	17	117,227,554	118,054,038	118,168,306	9,927,464	9,927,464	17	9,927,464	12,080,996
2014 Investment Gain	6/30/2014	29	(26,269,946)	(28,041,895)	(29,736,104)	(812,484)	(812,484)	29	(812,484)	(812,484)
2015 Investment Loss	6/30/2015	30	10,245,755	10,864,793	11,521,602	162,052	691,878	20	869,943	940,902
			101,203,363	100,876,936	99,953,804	9,277,032	9,806,858		9,984,923	12,209,415
PUBLIC SAFETY										
Forced Fresh Start Old Method	6/30/2013	17	196,292,155	197,350,177	197,276,421	16,573,433	\$16,573,433	17	16,573,433	20,168,655
2014 Investment Gain	6/30/2014	29	(36,371,839)	(39,279,139)	(41,652,269)	(1,138,073)	(1,138,073)	29	(1,138,073)	(1,138,073)
2015 Investment Loss	6/30/2015	30	14,550,267	15,949,122	17,399,912	244,730	\$1,044,874	20	1,313,788	\$1,420,950
			174,470,583	174,020,160	173,024,064	15,680,090	16,480,234		16,749,148	20,451,531
TOTAL										
Forced Fresh Start Old Method	6/30/2013	17	313,519,709	315,404,215	315,444,727	26,500,897	\$26,500,897	17	26,500,897	32,249,651
2014 Investment Gain	6/30/2014	29	(62,641,785)	(67,321,034)	(71,388,373)	(1,950,557)	(1,950,557)	29	(1,950,557)	(1,950,557)
2015 Investment Loss	6/30/2015	30	24,796,022	26,813,915	28,921,514	406,782	\$1,736,752	20	2,183,731	2,361,852
			275,673,946	274,897,096	272,977,868	24,957,122	26,287,092		26,734,071	32,660,946

AER 190% Interest 47%



Census Data

Participant Data as of June 30, 2015									
	Misc	Safety	Total						
Active Members									
a) Counts	510	269	779						
b) Average Attained Age	44.56	38.84	42.58						
c) Average Entry Age to Rate Plan	32.18	27.48	30.56						
d) Average Years of Service	12.38	11.36	12.03						
e) Actuarial Accrued Liability	\$138,520,667	\$117,569,806	\$256,090,473						
Transferred Members									
a) Counts	240	46	286						
b) Average Attained Age	43.80	43.00	43.67						
d) Average Years of Service	2.78	3.59	2.91						
e) Actuarial Accrued Liability	\$12,960,386	\$5,643,677	\$18,604,063						
Terminated Members									
a) Counts	296	40	336						
b) Average Attained Age	44.12	43.61	44.06						
d) Average Years of Service	2.96	3.74	3.05						
e) Actuarial Accrued Liability	\$8,245,782	\$3,237,248	\$11,483,030						
Retired Members and Beneficiaries									
a) Counts	605	424	1029						
b) Average Attained Age	68.56	65.07	67.12						
e) Average Annual Benefits	\$26,963	\$63,407	\$41,980						
e) Actuarial Accrued Liability	\$196,662,277	\$365,503,106	\$562,165,383						

PEPRA Employees

102 Misc. PEPRA employees, or 12.3% of all Misc. PERS employees.

Formula: 2% @ 62

Employer Normal Cost: 5.5% vs. Classic Member 8.242%

22 Safety PEPRA employees, or 2.7% of all Safety PERS employees.

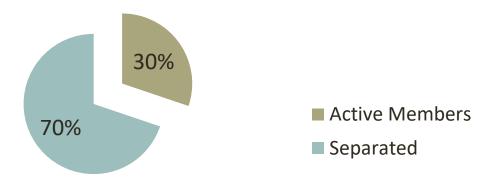
Formula: 2.7% @ 57

Employer Normal Cost: 10.5% vs. Classic Member 17.913%

UAL Status

	Miscellaneous	Public Safety	Total
Accrued Liability	\$356,419,112	\$491,953,837	\$848,372,949
Less Market Value of Assets (MVA)	\$255,215,749	\$317,483,254	\$572,699,003
Unfunded Liability	\$101,203,363	\$174,470,583	\$275,673,946
Funded Ratio (MVA/Accrued Liability)	71.6%	64.5%	67.5%

UAL Attribution



What's the problem?

Projected 2016

Accrued Pension Liability	\$891 million
Market Value of Assets	\$576 million
Unfunded Liability	\$315 million
Funded Status	65%

Current Projection

x 7.5% = \$23.6 million just to keep up with the interest

What if Fully Funded?

÷ \$71.9 million = 12 times greater than expected payroll Expected asset volatility +/- ~12% = \$107 million

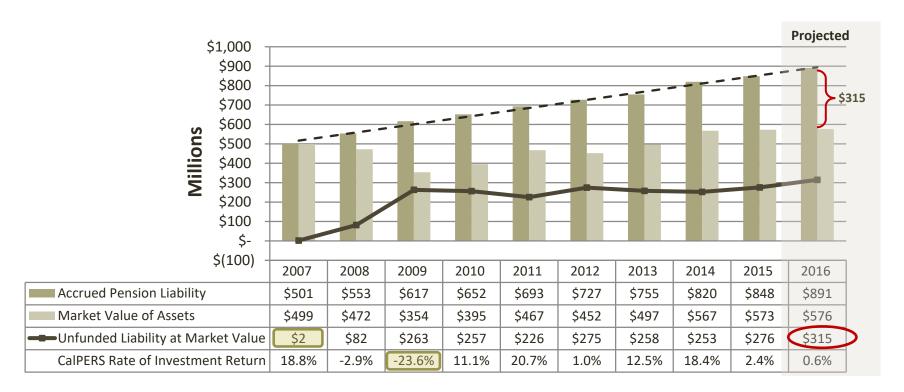
Accrued Pension Liability	\$891 million
Market Value of Assets	\$891 million
Unfunded Liability	_
Funded Status	100%

<u>Assets</u> are currently underfunded and volatile. <u>Liabilities</u> are large relative to agency payrolls and budget.

New Experience Losses

	2015 & 2016 Investment Experience Losses								
Valuation Year	Contribution FY Year	Expected Return	Actual Return	Experience Loss	MVA	Experience Loss	Two Year Interest Accumulation		
2015	2017-18	7.5%	2.4%	5.1%	567,303,448	28,932,476	33,435,092		
2016	2018-19	7.5%	0.6%	6.9%	572,699,003	39,516,231	45,665,945		
						68,448,707	79,101,037		

Projected



What's on the Horizon?

- Risk Mitigation Strategy Adopted Nov 2015 –
 Expected to impact employers when investment returns exceed 4% of current discount rate
- New Experience Study 6/30/17 Val.
- Strategic Asset Allocation Study 6/30/17 Val.
- State pressure to lower discount rate sooner rather than later

Potential Impact of Lowering Discount Rate to 6.5%

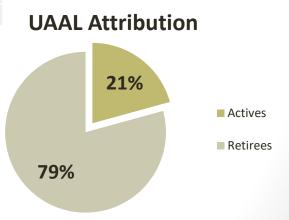
	MISCELI	.ANEOUS	SAF	ETY	Total		
	7.5% Discount 8.5% Discount		7.5% Discount			6.5% Discount	
Plan's Total Normal Cost	Rate 16.016%	Rate 20.194%	Rate 26.966%	Rate 33.974%	Rate 20.748%	Rate 26.149%	
Accrued Liability	356,419,112	404,545,471	491,953,837	555,768,319	848,372,949	960,313,790	
Market value of Assets	255,215,749	255,215,749	317,483,254	317,483,254	572,699,003	572,699,003	
Unfunded Accrued Liability	101,203,363	149,329,722	174,470,583	238,285,065	275,673,946	387,614,787	
Total Normal Cost	6,916,411	8,720,655	8,861,465	11,164,408	15,777,876	19,885,062	
Estimated Increase in Normal Cost		1,804,244		2,302,943		4,107,186	
Estimated Increase in UAL Payment*		3,348,599		4,440,167		7,788,766	
Estimate Increase in UAL		48,126,359		63,814,482		111,940,841	
*State Proposal - 20 Yr Amortization, 6.5%, Level-	%-of-Pay						
** CalPERS Proposal - Flexible Glide Path							



Demographics

	Miscellaneous	Safety	Total
No. of Active Employees	508	270	778
Average Age	44.6	39.0	42.7
Average Past Service	12.3	11.7	12.1
No. of Retired Employees*	302	262	564
Average Age	68.4	64.9	66.8
Average Retirement Age	57.5	51.3	54.7

^{*}Counts exclude 103 retirees waiving coverage and not receiving any City Contribution



OPEB Status

7.0% Assumed Discount Rate	6/30/2015	Projected 6/30/2016	Remaining Years
Actuarial Accrued Liability (AAL)	42,638,555	42,737,245	
Less: Actuarial Value of Assets	14,890,926	16,695,850	
Unfunded AAL	27,747,629	26,041,395	11
Funded Status	35%	39%	

Actuarial Determined Contribution (ADC)							
2016 17							
2016-17	2017-18						

6.5% Assumed Discount Rate	6/30/2015	6/30/2016	Remaining Years
Actuarial Accrued Liability (AAL)	44,606,004	44,692,159	
Less: Actuarial Value of Assets	14,890,926	16,131,814	
Unfunded AAL	29,715,078	28,560,345	11
Funded Status	33%	36%	

Annual Required Contribution (ADC)							
2016-17	2017-18						
3,791,887	3,909,640						



Already Doing

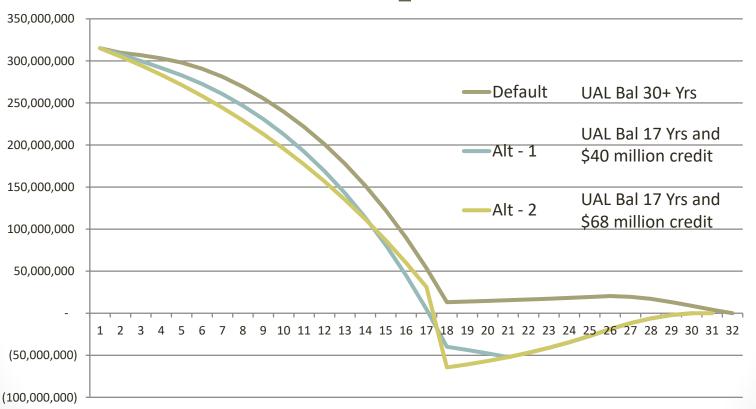
- Fewer Employees through attrition, layoffs, contracting and efficiency
- Lower Benefit Tiers
- Substantial increase in employee contributions
- Aggressive UAL payment schedule
- Other....

Preliminary Staff Recommendations

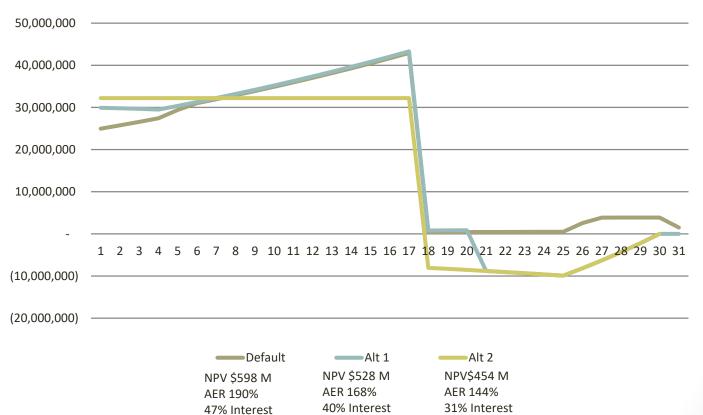
- 1) Start paying on 2016 experience in 2017-18 or sooner
- 2) Amortize 2015 & 2016 Experience Losses no longer than 20 Years
- 3) Make discretionary payments to preserve budget flexibility
- 4) Leave 2014 Experience Gain (\$71 million credit) as a rainy day fund
- 5) Incorporate a level payment on UAL into the 2017/18 budget
- 6) Consider the creation of a Pension & OPEB Funding Policy

	Sch.	Preliminary Funding Recommendations												
Val	Pmt													
FYE	FYE	Defau	ult - Amortizing	2015 & 2016	Losses Over 3	0 Years		Alternative 1	- Amortize 20	15 & 2016 Los	ses Over 20 Yrs		Alternative 2	Level Pmt. Plan
												Pmt Over		Pmt Over
		2014 Base	2014 Credit	2015 Loss	2016 Loss	Total	2014 Base	2014 Credit	2015 Loss	2016 Loss	Total	Default		Default
2015	2018	26,500,897	-1,950,558	406,782		24,957,121	26,500,897	-1,950,558	2,183,731	3,177,327	29,911,398	-4,954,276	32,204,184	-7,247,063
2016	2019	27,295,924	-3,013,612	837,971	636,258	25,756,541	27,295,924	-3,013,612	2,249,243	3,272,647	29,804,202	-4,047,661	32,204,184	-6,447,643
2017	2020	28,114,802	-4,138,693	1,294,665	1,310,691	26,581,464	28,114,802	-4,138,693	2,316,721	3,370,827	29,663,655	-3,082,191	32,204,184	-5,622,720
2018	2021	28,958,246	-5,328,568	1,778,007	2,025,017	27,432,702	28,958,246	-5,328,568	2,386,222	3,471,951	29,487,851	-2,055,149	32,204,184	-4,771,482
2019	2022	29,826,993	-5,488,425	2,289,184	2,781,024	29,408,776	29,826,993	-5,488,425	2,457,809	3,576,110	30,372,487	-963,711	32,204,184	-2,795,408
2020	2023	30,721,803	-5,653,078	2,357,860	3,580,568	31,007,153	30,721,803	-5,653,078	2,531,543	3,683,393	31,283,661	-276,508	32,204,184	-1,197,031
2021	2024	31,643,457	-5,822,670	2,428,596	3,687,985	31,937,368	31,643,457	-5,822,670	2,607,489	3,793,895	32,222,171	-284,803	32,204,184	-266,816
2022	2025	32,592,761	-5,997,350	2,501,453	3,798,625	32,895,489	32,592,761	-5,997,350	2,685,714	3,907,712	33,188,836	-293,348	32,204,184	691,305
2023	2026	33,570,543	-6,177,271	2,576,497	3,912,584	33,882,354	33,570,543	-6,177,271	2,766,285	4,024,943	34,184,501	-302,148	32,204,184	1,678,169
2024	2027	34,577,660	-6,362,589	2,653,792	4,029,961	34,898,824	34,577,660	-6,362,589	2,849,274	4,145,691	35,210,037	-311,212	32,204,184	2,694,640
2025	2028	35,614,989	-6,553,466	2,733,406	4,150,860	35,945,789	35,614,989	-6,553,466	2,934,752	4,270,062	36,266,338	-320,549	32,204,184	3,741,605
2026	2029	36,683,439	-6,750,070	2,815,408	4,275,386	37,024,163	36,683,439	-6,750,070	3,022,795	4,398,164	37,354,328	-330,165	32,204,184	4,819,978
2027	2030	37,783,942	-6,952,572	2,899,870	4,403,647	38,134,887	37,783,942	-6,952,572	3,113,479	4,530,109	38,474,958	-340,070	32,204,184	5,930,703
2028	2031	38,917,461	-7,161,150	2,986,866	4,535,757	39,278,934	38,917,461	-7,161,150	3,206,883	4,666,012	39,629,206	-350,272	32,204,184	7,074,750
2029	2032	40,084,984	-7,375,984	3,076,472	4,671,830	40,457,302	40,084,984	-7,375,984	3,303,090	4,805,993	40,818,082	-360,780	32,204,184	8,253,118
2030	2033	41,287,534	-7,597,264	3,168,766	4,811,984	41,671,021	41,287,534	-7,597,264	3,402,182	4,950,172	42,042,625	-371,604	32,204,184	9,466,837
2031	2034	42,526,160	-7,825,181	3,263,829	4,956,344	42,921,152	42,526,160	-7,825,181	3,504,248	5,098,678	43,303,904	-382,752	32,204,184	10,716,968
2032	2035		-8,059,937	3,361,744	5,105,034	406,842		-8,059,937	3,609,375	5,251,638	801,076	-394,235	-8,059,937	8,466,778
2033	2036		-8,301,735	3,462,597	5,258,185	419,047		-8,301,735	3,717,656	5,409,187	825,108	-406,062	-8,301,735	8,720,782
2034	2037		-8,550,787	3,566,474	5,415,931	431,618		-8,550,787	3,829,186	5,571,463	849,862	-418,243	-8,550,787	8,982,405
2035	2038		-8,807,311	3,673,469	5,578,409	444,567		-8,807,311	-	-	-8,807,311	9,251,877	-8,807,311	9,251,877
2036	2039		-9,071,530	3,783,673	5,745,761	457,904		-9,071,530			-9,071,530	9,529,434	-9,071,530	9,529,434
2037	2040		-9,343,676	3,897,183	5,918,134	471,641		-9,343,676			-9,343,676	9,815,317	-9,343,676	9,815,317
2038	2041		-9,623,986	4,014,098	6,095,678	485,790		-9,623,986			-9,623,986	10,109,776	-9,623,986	10,109,776
2039	2042		-9,912,706	4,134,521	6,278,548	500,364		-9,912,706			-9,912,706	10,413,070	-9,912,706	10,413,070
2040	2043		-8,168,070	4,258,557	6,466,905	2,557,392		-8,168,070			-8,168,070	10,725,462	-8,168,070	10,725,462
2041	2044		-6,309,834	3,509,051	6,660,912	3,860,129		-6,309,834			-6,309,834	10,169,963	-6,309,834	10,169,963
2042	2045		-4,332,752	2,710,742	5,488,591	3,866,581		-4,332,752			-4,332,752	8,199,333	-4,332,752	8,199,333
2043	2046		-2,231,368	1,861,376	4,239,937	3,869,945		-2,231,368			-2,231,368	6,101,313	-2,231,368	6,101,313
2044	2047			958,609	2,911,423	3,870,032					-	3,870,032	-	3,870,032
					1,499,383	1,499,383					-	1,499,383		1,499,383
		Total Payment	ts			597,332,274					527,893,055	69,439,219	454,757,441	142,574,833
		PV savings ove	er default									25,208,615		67,893,237
		Amortization I	Efficiency Ratio	(AER)		189.60%						167.60%		144.30%
						47.30%						40.30%		30.70%

UAL Balance Comparison



Payment Comparisons



Memorialize policies

- Contribute no less then 100% of actuarially determined contribution (ADC) annually [DOING]
- Target funding at 100% of Actuarial Accrued Liability [GOOD STATEMENT]
- Analyze schedule of amortization bases each and every year [DOING]
- Amortize ALL gains/losses no longer than a 20 year, closed period [RECOMMENDED/DOING]
- Rate smoothing phase-in no longer than five years, zero if possible [DOING]
- Establish a rate smoothing reserve or strategy to avoid phase-in periods and provide economic relief during recessionary cycles [DISCUSSION/INPUT]
- Dedicate a portion of surplus funds to accelerate payment on unfunded liabilities [DONE]

Further Questions?

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