Pension & OPEB Presentation

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Discussion Roadmap

- Review Terminology
- Examination of Amortization Schedules
- Current Plan Status
- Preliminary Staff Recommendations

Terminology

Projected Benefits

Present Value of Projected Benefits (PVB)

Normal Cost (NC)

Discount Rate (Investment Returns)

Actuarial Accrued Liability (AAL)

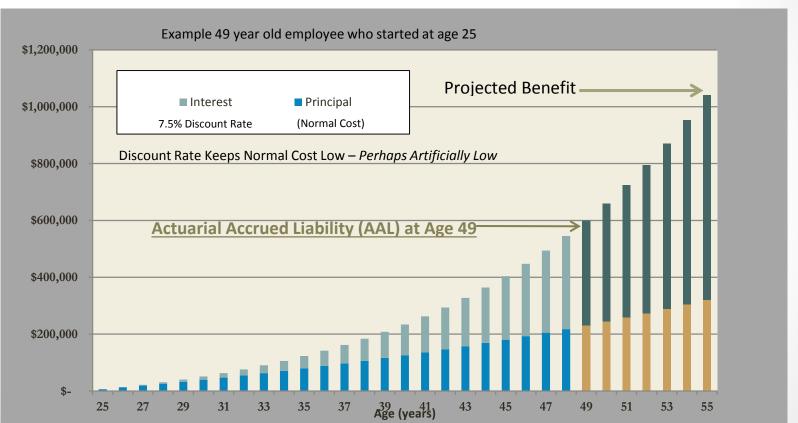
Market Value of Assets (MVA)

Unfunded Actuarial Accrued Liability (UAAL)

Gains/Losses and Actuarial Assumptions

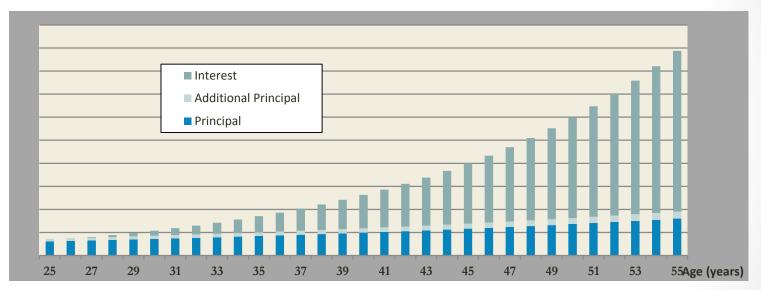
Amortization Schedules

Terminology



Change in Assumption

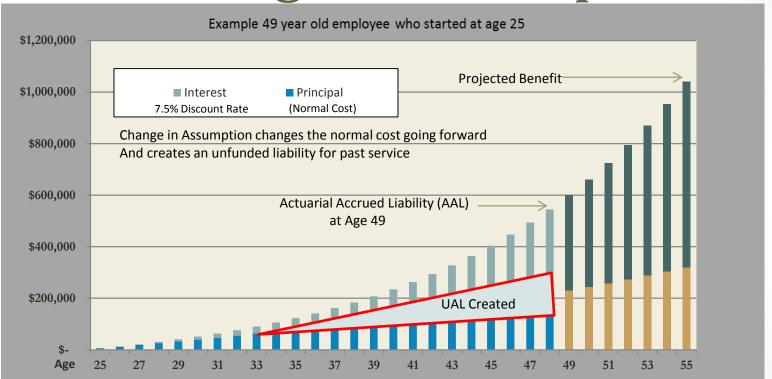
If the discount rate decreases...



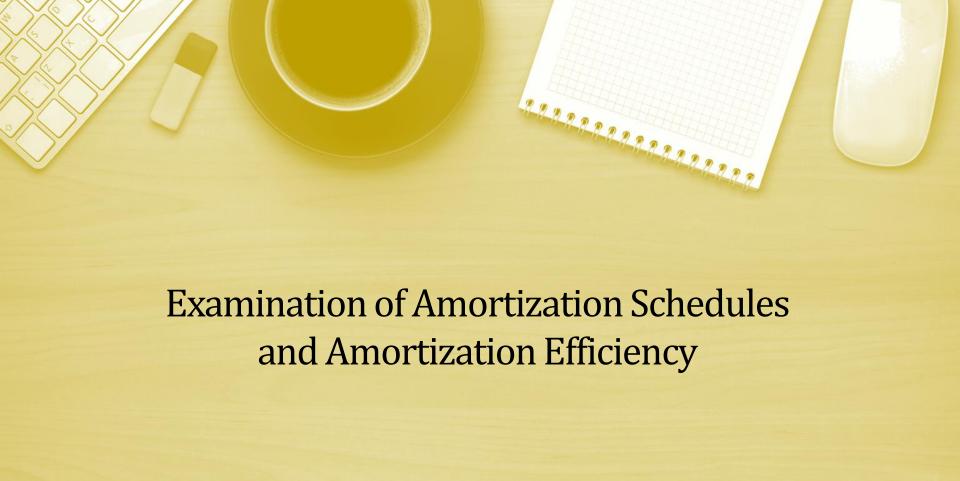
... additional "normal cost" contributions are needed to fund the predefined benefit



Change in Assumption

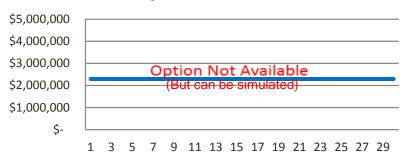


^{*}More Contributions required to make up for lower assumed investment earnings or other assumption change.

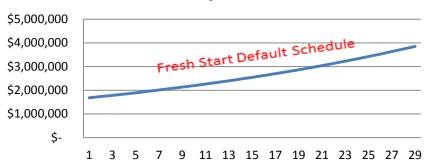


Amortization schedules

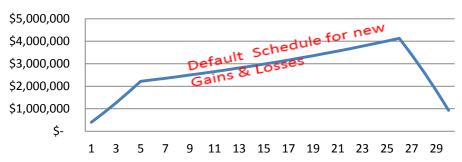
Level Payment Amortization



Level % of Pay Amortization



Level % of Pay - 5Yr Phase-in



Other City Example

Schedule of Amortization Bases

							AIIIC	unes
	Date	Amorti- zation	Balance	Expected Payment	Balance	Expected Payment	Balance	So Pa
Reason for Base	Established	Period	6/30/14	2014-15	6/30/15	2015-16	6/30/16	2
FS 30-YEAR AMORTIZATION	06/30/08	24	\$(4,760,389)	\$(307,896)	\$(4,798,185)	\$(317,133)	\$(4,829,238	3)
ASSUMPTION CHANGE	06/30/09	15	\$10,557,847	\$886,978	\$10,430,047	\$913,587	\$10,265,074	1
SPECIAL (GAIN)/LOSS	06/30/09	25	\$11,727,208	\$743,250	\$11,836,131	\$765,547	\$11,930,105	5
SPECIAL (GAIN)/LOSS	06/30/10	26	\$(1,985,365)	\$(123,450)	\$(2,006,272)	\$(127,154)	\$(2,024,906	5)
ASSUMPTION CHANGE	06/30/11	17	\$11,462,630	\$894,394	\$11,395,000	\$921,226	\$11,294,477	7
SPECIAL (GAIN)/LOSS	06/30/11	27	\$(5,269,530)	\$(321,832)	\$(5,331,062)	\$(331,487)	\$(5,387,199	9)
PAYMENT (GAIN)/LOSS	06/30/12	28	\$1,857,636	\$111,552	\$1,881,299	\$114,899	\$1,903,267	7
(GAIN)/LOSS	06/30/12	28	\$70,991,591	\$4,263,082	\$71,895,902	\$4,390,975	\$72,735,435	5
(GAIN)/LOSS	06/30/13	29	\$61,329,437	\$(281,811)	\$66,221,333	\$931,405	\$70,222,231	
ASSUMPTION CHANGE	06/30/14	20	\$33,710,124	\$(689,286)	\$36,953,050	\$(709,964)	\$40,460,635	5
(GAIN)/LOSS	06/30/14	30	\$(58,432,251)	\$(322.812)	\$(62,479,971)	\$(406,772)	\$(66,744,219))
TOTAL			\$131,188,938	\$4,852,169	\$135,997,272	\$6,145,129	\$139,825,662	2 \$

Amounts fo

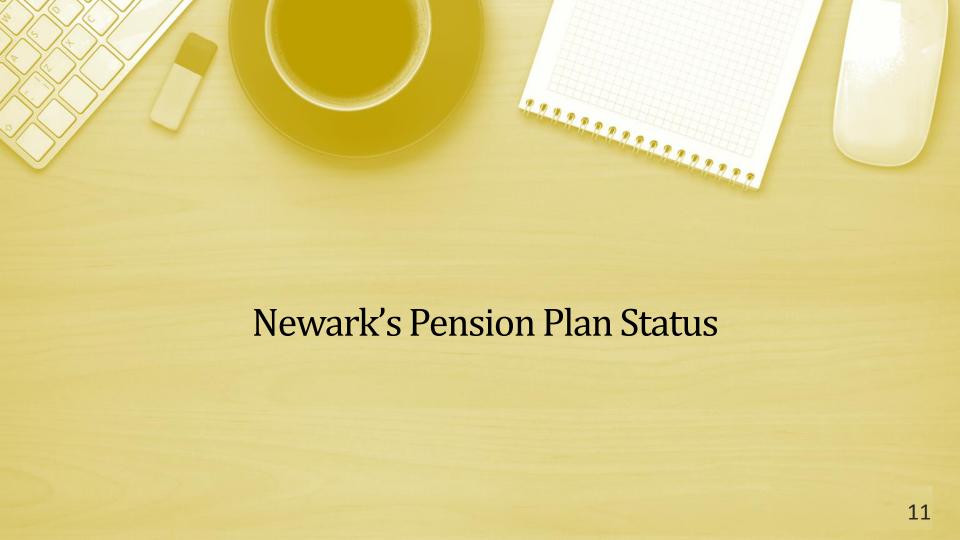
Alternate Amortization Schedules

(For paying off \$66 Million UAL)

	Default: 30-Years, 5- Yr Ramp up	Optional: 30-Year, Level %	Optional: 20-Year, 5-Yr Ramp up	Optional: 20-Year, Level %
Sum of all payments made:	\$190 Million	\$189 Million		\$134 Million
Net Present Value	\$118 Million	\$116 million	\$98 Millic	20 Yr. VS 30 Yr. NPV Savings \$21M

Least Cost Effective

Most Cost Effective



Newark's Participants Data

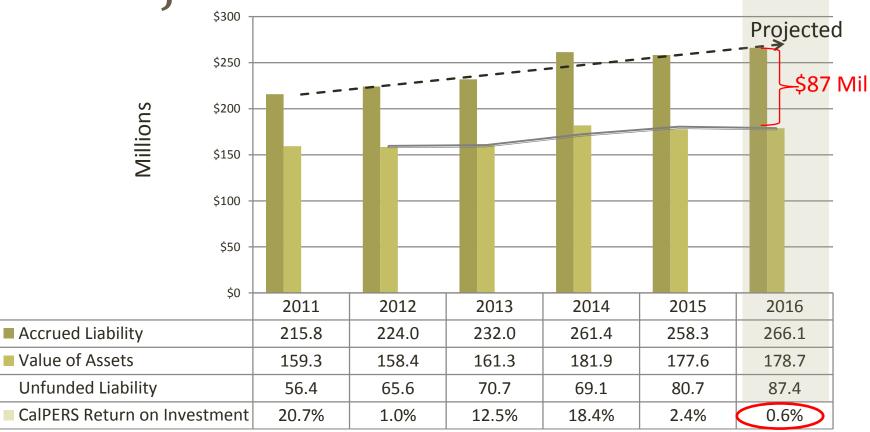
Participant Data as of June 30, 2015								
	Misc	Safety	Safety Pepra		Total			
Active Members								
Counts	112	53	3		168			
Average Years of Service	10.8	11	1					
<u>Transferred Members</u>								
Counts	92	66	0		158			
Terminated Members								
Counts	88	18	0		106			
Retired Members and Beneficiaries								
Counts	176	140	0		316			
Average Retirement Age	59.3	52.2	N/A					
					748			
Actuarial Accrued Liabilities	\$100,264,978	\$157,964,702	\$94,601	\$	258,324,281			

UAL Status

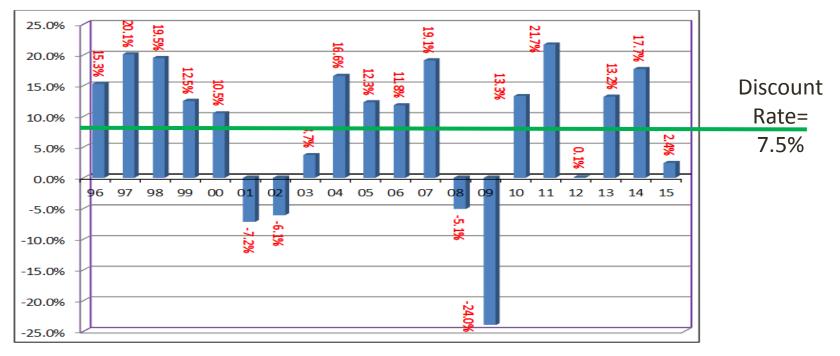
(Unfunded Accrued Liability)
June 30, 2015

	Miscellaneous	Public Safety	Total
Accrued Liability	\$100,264,978	\$158,059,303	\$258,324,281
Less Market Value of Assets (MVA)	\$68,012,608	\$109,617,746	\$177,630,354
Unfunded Liability	\$32,252,370	\$48,441,557	\$80,639,927
Funded Ratio (MVA/Accrued Liability)	67.8%	69.3%	68.8%

Projected UAL



CalPERS History of Investment Returns



History of CalPERS Geometric Mean Rates of Return and Volatilities								
1 year 5 year 10 year 20 year 30 year								
Geometric Return	2.4%	10.7%	6.1%	7.7%	9.1%			
Volatility	_	9.4%	14.0%	11.8%	10.5%			

What's the problem?

Projected 2016

\$87 million

2010	
266 million	
178 million	

69%

\$

Accrued Pension Liability

Market Value of Assets

Unfunded Liability

Funded Status

Funded Status

Accrued Pension Liability	\$266 million
Market Value of Assets	\$266 million
Unfunded Liability	_

Current Projection

x 7.5% = \$6.5 million just to keep up with the interest lost by the unfunded liability

What if Fully Funded?

Expected asset volatility $\pm -2\% = 32$ million

Assets are currently underfunded and volatile.

Liabilities are large relative to agency payrolls and budget.

100%

PEPRA Employees

(Employees hired after January 2013)

17 Misc. PEPRA employees

Formula: 2% @ 62

Employer Normal Cost: 6.25% vs. Classic Member 9.412%

Employees Cost Share = 3.468%

7 Safety PEPRA employees

Formula: 2.7% @ 57

Employer Normal Cost: 11.99% vs. Classic Member 19.723%

Employees Cost Share= 1.5% or 4%

New Way to Provide Rate Information

Past Method of Presenting Rates							
17/18	NC	UAL	Applied Rate				
Misc	5.944%	20.827%	26.771%				
Safety	15.723%	40.661%	56.384%				
Safety Pepra	10.49%	0.601%	11.091%				

New Presentation of Rates							
17/18	NC	UAL	Applied Rate				
Misc	5.944%	\$2.9 Mil					
Safety	15.723%	\$4.5 Mil					
Safety Pepra	10.49%	\$2,000					

17/18 Lump Sum Payment

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 has started

Potential Impact of Lowering Discount Rate to 6.5%

	MISCELLANEOUS		<u>SAFETY</u>		<u>Total</u>	
	7.5% Discount Rate	6.5% Discount Rate	7.5% Discount Rate	6.5% Discount Rate	7.5% Discount Rate	6.5% Discount Rate
Plan's Total Normal Cost	17.30%	21.63%	28.70%	36.10%		
Accrued Liability	100,264,978	113,035,381	157,964,702	179,250,880	258,229,680	292,286,261
Unfunded Accrued Liability	32,252,370	45,022,733	48,436,008	69,722,186	80,688,378	114,744,919
Total Normal Cost	1,712,745	2,142,318	2,150,195	2,704,600	3,862,940	4,846,918
Estimated Increase in Normal C	<u>Cost</u>	429,573		<u>554,406</u>		<u>983,978</u>
Estimated Increase in UAL Payr	<u>964,200</u>		<u>1,607,200</u>		<u>2,571,400</u>	
Estimate Increase in UAL		12,770,363		21,286,178		34,056,541
* 20 Yr Amortization, 6.5%, Level-%-	of-Pay					



Already Doing

- Always pay the full Required Contribution
- Lower Benefit Tiers, PEPRA
- Employees pay part of the employer share

Additional Actions that can help:

- 1) Re-establish a PERS reserve and commit funds to the reserve
- 2) Use a fresh start Amortization schedule to change to a Level %, 20-year Schedule
- 3) Use the Level %, 20-year Schedule for the 2016 losses.

Misc Plan Amortization

Reason for Base	Date Established	Amorti- zation Period	Balance 6/30/15	Expected Payment 2015-16	Balance 6/30/16	Expected Payment 2016-17	Balance 6/30/17	Scheduled Payment for 2017-18
ASSUMPTION CHANGE	06/30/03	8	\$1,376,778	\$171,739	\$1,301,974	\$176,891	\$1,216,218	\$182,197
METHOD CHANGE	06/30/04	9	\$(196,202)	\$(22,694)	\$(187,387)	\$(23,375)	\$(177,206)	\$(24,076)
ASSUMPTION CHANGE	06/30/09	14	\$3,724,701	\$326,253	\$3,665,787	\$336,041	\$3,592,307	\$346,122
SPECIAL (GAIN)/LOSS	06/30/09	24	\$31,480	\$2,036	\$31,730	\$2,097	\$31,935	\$2,160
SPECIAL (GAIN)/LOSS	06/30/10	25	\$(559,173)	\$(35,439)	\$(564,367)	\$(36,503)	\$(568,848)	\$(37,598)
ASSUMPTION CHANGE	06/30/11	16	\$1,886,823	\$152,540	\$1,870,178	\$157,116	\$1,847,540	\$161,829
SPECIAL (GAIN)/LOSS	06/30/11	26	\$222,916	\$13,861	\$225,263	\$14,277	\$227,356	\$14,705
PAYMENT (GAIN)/LOSS	06/30/12	27	\$655,129	\$40,011	\$662,779	\$41,212	\$669,758	\$42,448
(GAIN)/LOSS	06/30/12	27	\$13,586,422	\$829,778	\$13,745,071	\$854,671	\$13,889,809	\$880,311
(GAIN)/LOSS	06/30/13	28	\$9,782,644	\$137,593	\$10,373,683	\$283,442	\$10,857,830	\$437,918
ASSUMPTION CHANGE	06/30/14	19	\$4,619,908	\$(35,796)	\$5,003,515	\$95,305	\$5,279,964	\$196,329
(GAIN)/LOSS	06/30/14	29	\$(6,230,342)	\$(72,929)	\$(6,622,003)	\$(93,139)	\$(7,022,085)	\$(191,866)
(GAIN)/LOSS	06/30/15	30	\$3,351,286	\$75,831	\$3,524,009	\$92,485	\$3,692,419	\$51,934
TOTAL			\$32,252,370	\$1,582,784	\$33,030,232	\$1,900,520	\$33,536,997	\$2,062,413



Misc Plan Amortization Alternatives of the Projected 2017 Unfunded Liability of \$33.6 Million*

Current		20-Year	Payment	15-Year	Payment
	Amortization	Amortization	Difference	Amortization	Difference
6/30/2017	2,062,413	2,532,225	469,812	3,074,321	1,011,908
6/30/2018	2,330,429	2,608,192	277,763	3,166,551	836,122
6/30/2019	2,612,670	2,686,438	73,768	3,261,547	648,877
6/30/2020	2,750,238	2,767,031	16,793	3,359,393	609,155
6/30/2021	2,891,198	2,850,042	-41,156	3,460,175	568,977
6/30/2022	2,977,936	2,935,543	-42,393	3,563,981	586,045
6/30/2023	3,067,272	3,023,609	-43,663	3,670,900	603,628
6/30/2024	3,159,291	3,114,318	-44,973	3,781,027	621,736
6/30/2025	3,023,266	3,207,747	184,481	3,894,458	871,192
6/30/2026	3,145,378	3,303,980	158,602	4,011,292	865,914
6/30/2027	3,239,739	3,403,099	163,360	4,131,630	891,891
6/30/2028	3,336,930	3,505,192	168,262	4,255,579	918,649
6/30/2029	3,437,041	3,610,348	173,307	4,383,247	946,206
6/30/2030	3,540,151	3,718,658	178,507	4,514,744	974,593
6/30/2031	3,122,815	3,830,218	707,403	4,650,186	1,527,371
6/30/2032	3,063,562	3,945,125	881,563		
6/30/2033	2,738,254	4,063,478	1,325,224		
6/30/2034	2,658,151	4,185,383	1,527,232		
6/30/2035	2,570,776	4,310,944	1,740,168		
6/30/2036	2,475,768	4,440,272	1,964,504		
6/30/2046	122,386				
	76,892,299	68,041,842		57,179,031	
<u>Savings</u>		<u>8,850,457</u>		<u>19,713,268</u>	

Daymont

^{*}this does not include recent change to discount rate.

POSSIBLE POLICIES

- Contribute no less then 100% of actuarially determined contribution (ADC) annually
- Target funding at 90% to 100% of Actuarial Accrued Liability

RECOMMENDED

- Use 20-Year Alternate Amortization Schedule for Current UAL
- As possible, Amortize ALL gains/losses no longer than a 20 year, closed period

FOR DISCUSSION/INPUT

- Establish the PERS reserve with a strategy to avoid phase-in periods and provide economic relief during recessionary cycles
- Dedicate a portion of surplus funds to accelerate payment on unfunded liabilities

Estimated Termination Liability (Cost to quit CalPERS)

Misc Plan	\$129 Million
Classic Safety Plan	\$220 Million
<u>Total</u>	\$349 Million

End of Pension Section, Questions?



Demographics

	Miscellaneous	Safety	Total
No. of Active Employees	112	56	168
Average Age	45.2	39.5	
No. of Retired Employees*	77	45	122
Average Age	71.5	64.8	
Average Retirement Age	59.3	49.5	
*Counts exclude retirees waiving coverage			

OPEB Status

7.25% Assumed Discount Rate	6/30/2015	Projected 6/30/2016	Remaining Years
Actuarial Accrued Liability (AAL)	3,117,000	3,323,000	
Less: Actuarial Value of Assets	1,259,000	1,485,000	
Unfunded AAL	1,858,000	1,838,000	25
Funded Status	40%	45%	Δ.

Annual Required Contribution (ARC)		
2016-17	2017-18	
229,000	237,000	

