

ALAMEDA COUNTY FIRE DEPARTMENT RETIREE HEALTHCARE PLAN



City of Emeryville Side Fund Illustration and Pre-Funding Examples

Based on June 30, 2023 Actuarial Valuation

Doug Pryor Cathy Wandro Katherine Moore Foster & Foster, Inc.

February 27, 2024

Topic	<u>Page</u>
Side Funds Purpose	1
Side Funds Methodology	2
Normal Cost Allocation Illustration	3
Benefit Payment Allocation Illustration	5
(Gains)/Losses Allocation Illustration	7
Pre-Funding Examples	9
Actuarial Assumptions	15
Definitions of Terms	16



SIDE FUNDS PURPOSE

Purpose of Side Funds

- Allow each agency in ACFD the choice of pre-funding their OPEB benefit independent of the pre-funding choice of other agencies in ACFD
- Side funds are established for each agency within ACFD based on the full prefunding discount rate (currently 6.25%)
- Represents the amount of unfunded liability for each agency due to past service, based on ACFD retiree medical benefit
- ACFD set up account in CalPERS California Employers Retiree Benefit Trust (CERBT) with separate sub-accounts for each agency
- Each agency decides how much, if any, of its own side fund to pre-fund
- If paid off would fully pre-fund past-service liability for agency, however agency would still accrue future liability due to Normal Cost for active employees, demographic and investment experience gains/losses, assumptions changes, or plan changes
- Even if paid off, there could still be a liability upon withdrawal from ACFD.



February 27, 2024

1



SIDE FUNDS METHODOLOGY

Calculation of Side Funds

- Initial side fund determined as of 6/30/08, or when joining ACFD if later, for each agency in ACFD.
- Yearly side fund calculation:
 - Allocate year's full pre-funding Normal Cost (NC) to each participating agency based on FTE, remaining is allocated based on allocation % of shared positions.
 - Each agency side fund will change:
 - (Beginning of year side fund with interest to end of year)
 - + (Allocated portion of full pre-funding NC)
 - (Allocated benefit payments with interest to end of year)
- Difference between total side fund amount and full pre-funding AAL is allocated to each agency based on FTEs, remaining based on allocation % of shared positions.
- Each agency determines whether to make a pre-funding contribution to their CERBT sub-account or not, agency side fund is reduced by any assets in their sub-account due to contributions made:
 - (Agency end of year side fund)
 - (Agency end of year assets in CERBT sub-account)





NORMAL COST ALLOCATION ILLUSTRATION

Illustration of Normal Cost Allocation¹ Step 1 – Determine Normal Cost per Active Position (Amounts in \$000s)

		2023/24	
	Safety	Misc ²	Total
(1) Allocated FTE Positions	312	19	331
(2) Allocated Shared Positions	<u>16</u>	<u>19</u>	<u>35</u>
(3) Total # of Active Positions	328	38	366
(4) Normal Cost at 6.25%	\$3,844	\$283	\$4,127
(5) Normal Cost per Active Position [(4)/(3)]	\$11.72	\$7.45	n/a

Excluding dispatch.



February 27, 2024

3



NORMAL COST ALLOCATION ILLUSTRATION

Illustration of Normal Cost Allocation³ Step 2 – Allocate Portion of Normal Cost to City of Emeryville (Amounts in \$000s)

	2023	3/24
	Total ACFD (Excl. Dispatch)	Emeryville
(6) Allocation %	100%	5.88%
(7) Allocated FTE Positions		
a) Safety	312	19
b) Misc (excluding Dispatch)	19	1
(8) Allocate Normal Cost		
a) Safety FTE [(7a)*Safety(5)]	\$3,657	\$223
b) Misc FTE [(7b)*Misc(5)]	141	7
c) Safety Shared [(6)*Safety(2)*Safety(5)]	188	11
d) Misc Shared [(6)*Misc(2)*Misc(5)]	<u> 141</u>	8
e) Total	4,127	249

³ For illustration of methodology only.





For illustration of methodology only.

BENEFIT PAYMENT ALLOCATION ILLUSTRATION

Illustration of Benefit Payment Allocation⁴ Allocate Benefit Payments using Allocation % (Amounts in \$000s)

	ALCO (Excl Dispatch)	San Leandro	Dublin	LBNL		Newark	Union City	Emery- ville	Total
(1) Allocation %	30.41%	20.59%	11.76%	3.92%	9.80%	8.82%	8.82%	5.88%	100%
(2) 23/24 Benefit Payments ⁵				\$5	5,617			(4	
(3) Allocated Benefit Payments [(1) * (2)]	\$1,708	\$1,157	\$661	\$220	\$551	\$495	\$495	\$330	\$5,617

For illustration of methodology only. Includes implicit subsidy benefit payments.



February 27, 2024

5



BENEFIT PAYMENT ALLOCATION ILLUSTRATION

This page intentionally blank







GAINS/LOSSES ALLOCATION ILLUSTRATION

Illustration of (Gains)/Losses Allocation⁶ Step 1 – Determine (Gain)/Loss Amount per Participant (Amounts in \$000s)

	Safety	Misc (Excluding Dispatch)	Total
(1) Allocated FTE Positions	312	19	331
(2) Shared Positions	16	19	35
(3) Retirees	<u>305</u>	_9	314
(4) Total # of Participants	633	47	680
(5) 2023/24 (Gains)/Losses ⁷	\$0	\$0	\$0
(6) 2023/24 (Gains)/Losses per Participant [(5)/(4)]	\$0	\$0	n/a

⁶ For illustration of methodology only.

The 6/30/24 side fund amounts are based on a roll-forward of the 6/30/23 valuation, so there are no (gains)/losses which would occur only if the beginning of year and end of year side funds were based on different OPEB valuations. However, these slides show the methodology of allocating (gains)/losses when they occur.



February 27, 2024

7



GAINS/LOSSES ALLOCATION ILLUSTRATION

Illustration of (Gains)/Losses Allocation⁸ Step 2 – Allocate Portion of (Gains)/Losses to City of Emeryville (Amounts in \$000s)

	Total ACFD (Excl. Dispatch)	Emeryville
(7) 2023/24 Allocation %	100%	5.88%
(8) Allocated FTE Positions		
a) Safety	312	19
b) Misc (excluding Dispatch)	19	1
(9) Allocate 2023/24 (Gains)/Losses:		
a) Safety FTE [(8a)*Safety(6)]	\$0	\$0
b) Misc FTE [(8b)*Misc(6)]	0	0
c) Safety Shared [(7)*Safety(2)*Safety(6)]	0	0
d) Misc Shared [(7)*Misc(2)*Misc(6)]	0	0
e) Safety Retirees [(7)*Safety(3)*Safety(6)]	0	0
f) Misc Retirees [(7)*Misc(3)*Misc(6)]	0	_0
g) Total	0	0

For illustration of methodology only.





PRE-FUNDING EXAMPLES

Illustrations

- Side funds shown under 3 Emeryville 2023/24 contribution scenarios:
 - Scenario 1 (baseline)
 No contribution
 - Scenario 2
 Full 2023/24 ADC contribution on 6/30/24
 - Scenario 3
 Full 6/30/23 Unfunded Side Fund contribution on 6/30/24





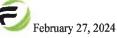


PRE-FUNDING EXAMPLES

2023/24 Side Fund Calculations⁹ Estimated Side Funds (Amounts in \$000s)

	Dis- patch	ALCO	San Leandro	Dublin	LBNL	LLNL	Newark	Union City	Emery- ville	Total
Allocation %	0.00%	30.41%	20.59%	11.76%	3.92%	9.80%	8.82%	8.82%	5.88%	100.00%
Side Fund BOY	\$2,008	\$52,911	\$29,866	\$13,017	\$1,651	\$6,684	\$5,703	\$7,242	\$3,233	\$122,315
Normal Cost	152	1,306	825	480	153	384	365	365	249	4,279
Benefit Pmts	(47)	(1,708)	(1,157)	(661)	(220)	(551)	(495)	(495)	(330)	(5,665)
• Interest	134	3,336	1,883	823	106	425	364	460	207	7,738
• (Gain)/Loss	0	0	0	0	0	0	0	0	0	<u> </u>
■ Side Fund EOY	2,246	55,846	31,417	13,659	1,690	6,942	5,936	7,571	3,360	128,667

⁹ For illustration of methodology only.





PRE-FUNDING EXAMPLES

<u>Pre-Funding Scenario 1</u>¹⁰ No Contribution from Emeryville (Amounts in \$000s)

	(Timounity III 40000)									
	Dis- patch	ALCO	San Leandro	Dublin	LBNL	LLNL	Newark	Union City	Emery- ville	Total
Assets 2023/24:										
 Assets BOY 	\$3,122	\$19,194	\$3,707	\$14,341	\$1,000	\$1,764	\$4,280	\$2,626	\$1,284	\$51,317
 EE Contrib. 	135	624	422	241	80	201	181	181	121	2,186
• ER Contrib.	-	2,000	-	-	-	-	-	-	-	2,000
 Disbursements 	-	-	-	(500)	-	-	-	-	-	(500)
 Net Earnings 	<u>197</u>	1,271	_243	881	64	115	<u>271</u>	<u>169</u>	83	3,294
 Assets EOY 	3,454	23,088	4,372	14,963	1,145	2,081	4,731	2,975	1,488	58,297
 AVA EOY 	3,599	24,058	4,555	15,590	1,193	2,168	4,930	3,100	1,550	60,743
■ Funded Status										
 Side Fund EOY 	\$2,246	\$55,846	\$31,417	\$13,659	\$1,690	\$6,942	\$5,936	\$7,571	\$3,360	\$128,667
 AVA EOY 	(3.599)	(24,058)	(4,555)	(15,590)	(1,193)	(2,168)	(4,930)	(3,100)	(1,550)	(60,743)
 Unfunded SF 	(1,353)	31,788	26,862	(1,931)	497	4,774	1,006	4,471	1,810	67,924
■ 2024/25 ADC ¹¹										
 Normal Cost 	\$167	\$1,437	\$910	\$529	\$170	\$423	\$402	\$402	\$275	\$4,715
 Amortization 	(105)	2,457	2,076	(149)	<u>38</u>	<u>369</u>	<u>78</u>	346	140	5,250
• Total	62	3,894	2,986	380	208	792	480	748	415	9,965

10 For illustration of methodology only.

11 2024/25 Normal Cost (including administrative expenses) plus 18-year amortization of 6/30/24 unfunded side fund with interest to EOY.



February 27, 2024

11



PRE-FUNDING EXAMPLES

Pre-Funding Scenario 2¹² If Emeryville Contributed Full 2023/24 ADC on 6/30/24 (Amounts in \$000s)

	Dis- patch	ALCO	San Leandro	Dublin	LBNL	LLNL	Newark	Union City	Emery- ville	Total
M Assets 2023/24										
 Assets BOY 	\$3,122	\$19,194	\$3,707	\$14,341	\$1,000	\$1,764	\$4,280	\$2,626	\$1,284	\$51,317
• EE Contrib.	135	624	422	241	80	201	181	181	121	2,186
 ER Contrib. 	-	2,000	-	-	· ·	*	-	-	407	2,407
 Disbursements 	7=5	- 14	:=::	(500)	-	- .	-	-	-	(500)
 Net Earnings 	<u>197</u>	1,271	_243	881	64	115	271	<u>169</u>	83	3,294
 Assets EOY 	3,454	23,088	4,372	14,963	1,145	2,081	4,731	2,975	1,895	58,704
AVA EOY	3,599	24,058	4,555	15,590	1,193	2,168	4,930	3,100	1,974	61,167
■ Funded Status										
 Side Fund EOY 	\$2,246	\$55,846	\$31,417	\$13,659	\$1,690	\$6,942	\$5,936	\$7,571	\$3,360	\$128,667
 AVA EOY 	(3,599)	(24,058)	(4,555)	(15,590)	(1,193)	(2,168)	(4,930)	(3,100)	(1,974)	<u>(61,167)</u>
 Unfunded SF 	(1,353)	31,788	26,862	(1,931)	497	4,774	1,006	4,471	1,386	67,500
■ 2024/25 ADC ¹³										
 Normal Cost 	\$167	\$1,437	\$910	\$529	\$170	\$423	\$402	\$402	\$275	\$4,715
 Amortization 	(105)	2,457	2,076	(149)	<u>38</u>	<u>369</u>	<u>78</u>	<u>346</u>	107	<u>5,217</u>
Total	62	3,894	2,986	380	208	792	480	748	382	9,932

For illustration of methodology only. 2023/24 Emeryville ADC was calculated based on 6/30/23 OPEB valuation for illustration purposes. 2024/25 Normal Cost (including administrative expenses) plus 18-year amortization of 6/30/24 unfunded side fund with interest to EOY.





PRE-FUNDING EXAMPLES

Pre-Funding Scenario 314 If Emeryville Contributed 6/30/23 Unfunded Side Fund on 6/30/24 (Amounts in \$000s)

			(2)	mounts i	II DUUUS)					
	Dis- patch	ALCO	San Leandro	Dublin	LBNL	LLNL	Newark	Union City	Emery- ville	Total
Massets 2023/24:										
 Assets BOY 	\$3,122	\$19,194	\$3,707	\$14,341	\$1,000	\$1,764	\$4,280	\$2,626	\$1,284	\$51,317
 EE Contrib. 	135	624	422	241	80	201	181	181	121	2,186
• ER Contrib.	-	2,000	-	-	-	-	-	-	1,877	3,877
 Disbursements 	-	_	_	(500)	-	-	-		-	(500)
 Net Earnings 	<u>197</u>	1,271	243	881	64	<u>115</u>	271	169	83	3,294
 Assets EOY 	3,454	23,088	4,372	14,963	1,145	2,081	4,731	2,975	3,365	60,174
 AVA EOY 	3,599	24,058	4,555	15,590	1,193	2,168	4,930	3,100	3,505	62,698
■ Funded Status										
 Side Fund EOY 	\$2,246	\$55,846	\$31,417	\$13,659	\$1,690	\$6,942	\$5,936	\$7,571	\$3,360	\$128,667
 AVA EOY 	(3,599)	(24,058)	(4,555)	(15,590)	(1,193)	(2,168)	(4,930)	(3,100)	(3,505)	(62,698)
 Unfunded SF 	(1,353)	31,788	26,862	(1,931)	497	4,774	1,006	4,471	(145)	65,969
■ 2024/25 ADC ¹⁵										
 Normal Cost 	\$167	\$1,437	\$910	\$529	\$170	\$423	\$402	\$402	\$275	\$4,715
 Amortization 	(105)	2,457	2,076	(149)	_38	369	<u>78</u>	346	(10)	5,100
Total	62	3,894	2,986	380	208	792	480	748	265	9,815

For illustration of methodology only. 2024/25 Normal Cost (including administrative expenses) plus 18-year amortization of 6/30/24 unfunded side fund with interest to EOY.



February 27, 2024

13



PRE-FUNDING EXAMPLES

Emeryville Pre-Funding Example Comparison 16 (Amounts in \$000s)

		City of Emeryville	
	Scenario 1	Scenario 2	Scenario 3
Assets 2023/24:			
Assets BOY	\$1,284	\$1,284	\$1,284
Employee Contribution	121	121	121
Employer Contribution	-	407	1,877
Disbursements	-	-	-
Net Earnings	<u>83</u>	83	83
Assets EOY	1,488	1,895	3,365
AVA EOY	1,550	1,974	3,505
Funded Status 6/30/24			
Side Fund EOY	\$3,360	\$3,360	\$3,360
AVA EOY	(1,550)	(1,974)	(3,505)
Unfunded Side Fund	1,810	1,386	(145)
■ 2024/25 ADC ¹⁷			
Normal Cost	\$275	\$275	\$275
Amortization	<u>140</u>	<u>107</u>	(10)
Total	415	382	265

For illustration of methodology only. 2024/25 Normal Cost (including administrative expenses) plus 18-year amortization of 6/30/24 unfunded side fund with interest to EOY





ACTUARIAL ASSUMPTIONS

Assumption	Same as June 30, 2023 OPEB Valuation
■ Discount Rate	■ 6.25% - full pre-funding rate
■ Inflation	■ 2.50%
■ Payroll Increases	■ Aggregate increase – 2.75%
Demographic Assumptions	 CalPERS 2000-2019 Experience Study (Mortality, Retirement, Termination, Disability) Mortality projected fully generational with MP-2021
■ Healthcare Trend	 Actual 2023 and 2024 PEMHCA premiums used Non-Medicare: 8.50% for 2025, decreasing to an ultimate rate of 3.45% in 2076 Medicare: 7.50% for 2025, decreasing to an ultimate rate of 3.45% in 2076 (For Kaiser Medicare: 6.25% for 2025, decreasing to an ultimate rate of 3.45% in 2076)
■ Participation at Retirement	 Hired before April 1, 2009 – 100% if currently covered, 90% if currently waived. Hired on or after April 1, 2009: 60% if less than 10 years of service, 90% for 10-14, 95% for 15-19, and 100% for 20+



15



DEFINITIONS OF TERMS

Side Fund

- Initial Side Fund = Liability for benefits based on past service when joining ACFD, using current actuarial methods & assumptions
- Side Fund EOY = (Side Fund BOY) + (Allocated Normal Costs) (Allocated Benefit Payments) + (Allocated (Gains)/Losses) + (Interest to EOY)

Assets

- Funds set aside in a segregated and restricted trust (ACFD in CERBT) so they can only be used to pay plan benefits. Each agency has its own sub-account in CERBT.
- Assets EOY = (Assets BOY) + (Contributions) (Benefit Payments paid from Trust) + (Investment Earnings)
- Actuarial Value of Assets (AVA) smoothed assets used for the actuarial valuation
- Agency Unfunded Side Fund
 - Agency Side Fund less Agency Actuarial Value of Assets
- Actuarial Accrued Liability (AAL)
 - Liability for benefits "earned" for or attributed to past service using actuarial methods and assumptions
- Normal Cost (NC)
 - Value of benefits "earned" by actives during or attributed to the current year



