



***East Bay Regional
Communications
System Authority***



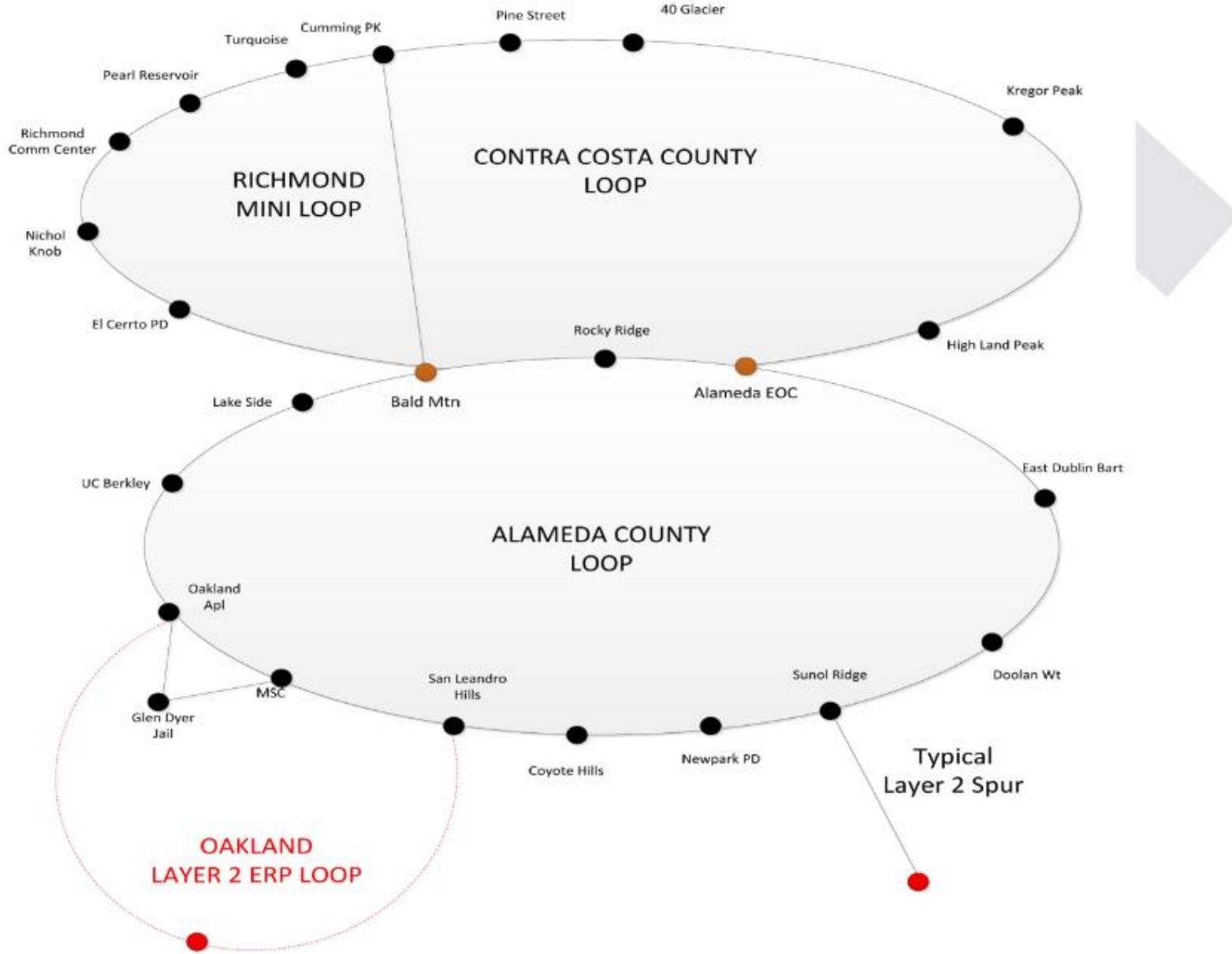
Participating agencies include Alameda and Contra Costa Counties and the following cities and special districts: Alameda, Albany, Antioch, Berkeley, Brentwood, Clayton, Concord, Danville, Dublin, El Cerrito, Emeryville, Fremont, Hayward, Hercules, Lafayette, Livemore, Martinez, Moraga, Newark, Oakley, Pinole, Pittsburg, Pleasant Hill, Pleasanton, Richmond, San Leandro, San Pablo, San Ramon, Union City, Walnut Creek, East Bay Regional Park District, Kensington Police Community Services District, Moraga-Orinda Fire District, Rodeo-Hercules Fire District, San Ramon Valley Fire District, University of California, Berkeley and California Department of Transportation

**CAPITAL INFRASTRUCTURE REPLACEMENT
BOARD WORKSHOP
NOVEMBER 8, 2024**

OVERVIEW OF THE DAY

- Workshop Format
 - Ask questions along the way
- System Overview
- Replacement Options
 - Timing and cost
- What is an appropriate Reserve Fund Policy for Operating and Capital Funds?
- What is the recommended timeline for replacement of technical equipment?
- What rate structure is most appropriate to fund \$67m Infrastructure Replacement?

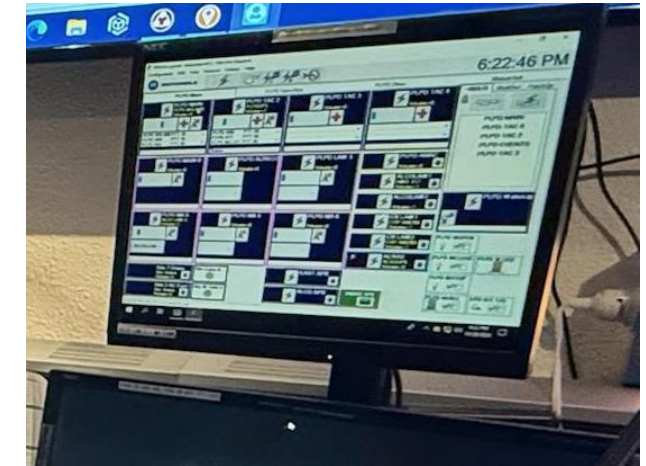
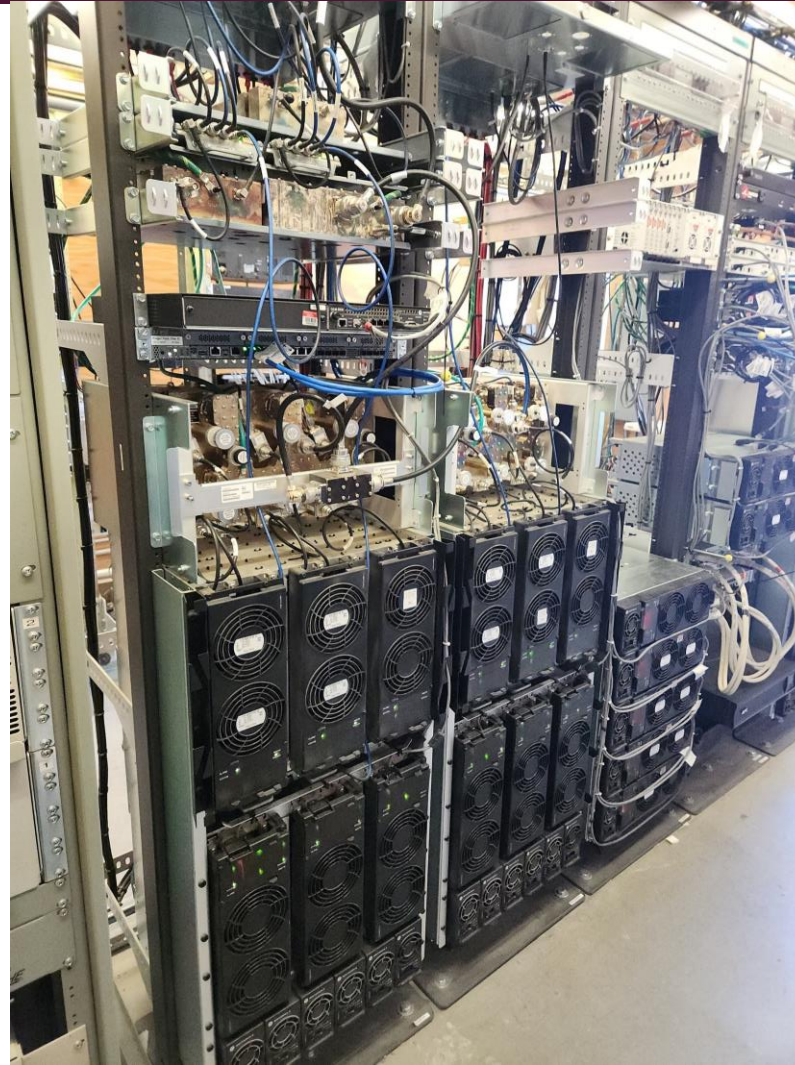




- CTR 8540 Ring Site
- Core Router sites
- Layer 2 eclipse spur Site

SYSTEM OVERVIEW

- 1 Master Site, 6 Prime Sites, 31 RF Sites
- Master and Prime Sites have redundancies
 - Sites use common computer networking equipment and other technical radio equipment
 - Sites also have non-technical equipment
- 229 Dispatch Consoles



CURRENT SERVICE AND UPGRADE AGREEMENTS

- Service Upgrade Agreement with Motorola
- AVIAT Service Agreement for Microwave Dishes/System
- Multi-Packet Labeling System Lease and Agreement

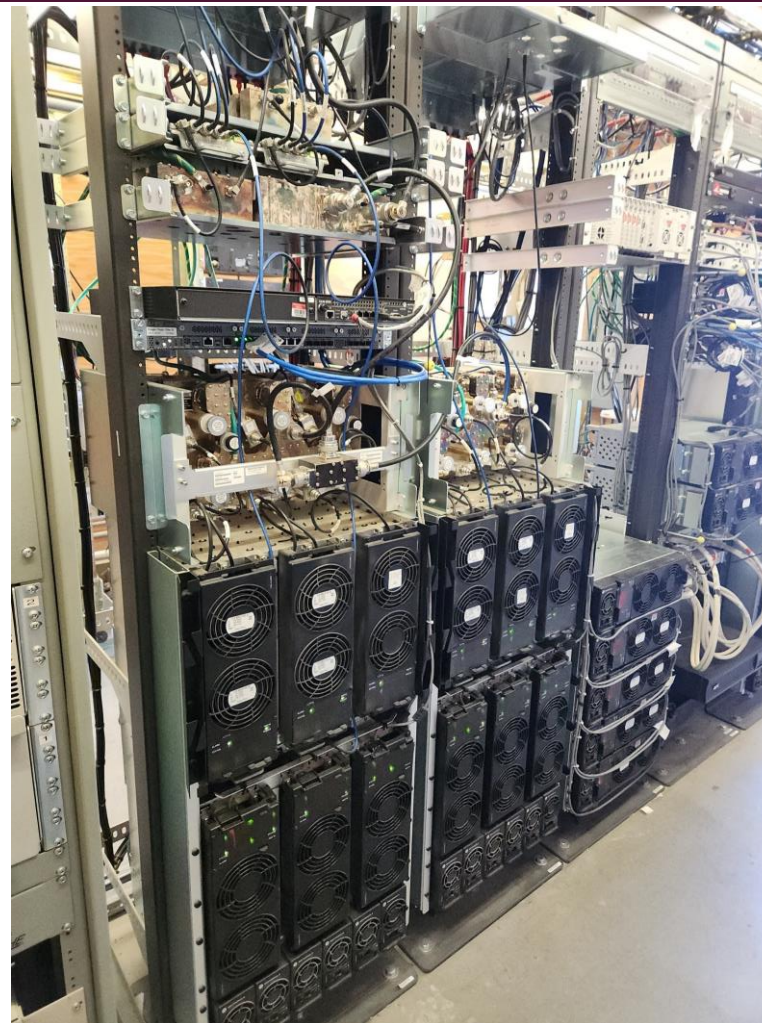
CIP PROCESS

- CSI Telecommunications – Craig Trygstad and Team
- Asked to forecast 10 year infrastructure replacement needs
- Visited and inventoried each radio site – June to August
- Visited multiple communication centers to determine baseline needs
- Analyzed data and provided a report and recommendation
- Overall infrastructure is in a good state of repair
- Current fees will cover replacement of non-technical infrastructure
- Technical infrastructure replacement due to platform migration



MAJOR ASSET INVENTORY

- 391 Repeaters
- 229 Dispatch Consoles
- 36 Battery Stacks
- 36 Dehydrators
- 36 Radio Shelters
- 28 Generators
- 6 Prime Site Controllers
- Other items included in maintenance agreements



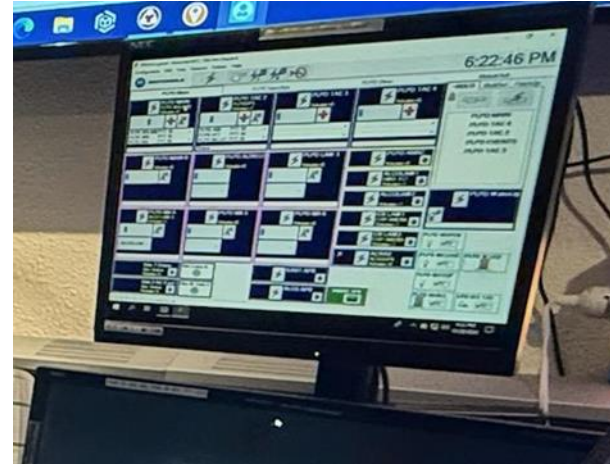
SHORT-TERM REPLACEMENT NEEDS

- Estimated \$1.2M in first five years
- Mostly non-technical replacement
 - Three generators
 - DC Power Rectifiers
 - Dehydrators



CIP COSTS

- Non-technical
 - Estimate of \$2.5m
 - Can be absorbed in current rate schedule
- Technical
 - Estimate of \$64m
 - Initial pricing \$50m for equipment
 - Services estimate of \$14.3m



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CIP TIMELINE

- Consoles are end of support in 2030
- Repeaters are end of support in 2032
- End of support dates are not end of life
 - No performance issues noted in current product
- New and old infrastructure is backwards and forwards compatible

Projected Lifecycle Management Plan - EBRCs														
SUA II Contract Year	1	2	3	4	5	6								
Calendar Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Projected Shipping Release	AN2024.1	AN2025.1	AN2026.1	AN2027.1	AN2028.1	AN2029.1	AN2030.1	AN2031.1	AN2032.1	AN2033.1	AN2034.1	AN2035.2	AN2036.2	
Projected Upgrade to this Release		AN2024.1		AN2026.1		AN2028.1		AN2030.1		AN2032.1		AN2034.1		
Key Component to Migrate														
IP Simulcast to Virtual Prime site					EOS									
RF Site SDM3000 to MC Edge						EOS								
Conventional Site Controller - CSC8000 to DSC8000							EOS							
MCC 7500 to AXS							EOS							
7/800 MHz G-series to D-series trunked RF sites									EOS					
	EOS	= End of Support is December 31st of calendar year specified.												
	DATES ARE SUBJECT TO CHANGE WITHOUT NOTICE													
	Motorola Confidential and Proprietary													



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RESERVE FUND POLICY

- Operating Fund
 - Current Policy is 50% of Budget
 - Stable Source of Funding
 - Accounting Policy Recommendation is two months of expenses
 - 25% Ceiling Recommendation
- Capital Fund
 - No current policy
 - Intent of the Capital Fund – Replacement
 - Should have a reasonable amount for catastrophic failures
 - \$5m Recommendation

CURRENT RATES

- Current Rates
 - Operating Payments \$31/month
 - Service Payments \$15/month – 61 of 115 member agencies
 - Service Payments stop in 2026



FUNDING SCENARIOS

- Multiple potential scenarios for rate increases
- Scenarios assume Fund balance policy of 25% for Operating and \$5m for Capital Fund
- Scenarios assume work to begin in FY2030/31 with an average \$6.7m expenditure for 10 years – meaning some installations would occur 8 years after proposed end of support.



FUNDING SCENARIOS

Scenario One:

- Across the board \$3.00 per unit per month increase for five years
- Results in Operating Payments of \$46 per unit per month
- Ending Capital Fund balance of \$6m in FY2038/39
- Agencies with Service Payments could defer until 2027/28 and remain at \$46

SCENARIO ONE

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY 15 YEAR CASH FLOW PROJECTION WITH \$3 INCREASES FOR FIRST FIVE YEARS

Operating Payment Rate	30	31	34	37	40	43	46	46	46	46	46	46	46	46	46	
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,517,960	8,971,560	10,332,360	11,088,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,704,860)	(3,740,514)	(4,924,613)	(5,461,212)	(6,002,377)	(5,821,470)	(5,603,228)	(5,359,267)	(5,153,181)	(4,909,836)	(4,640,517)	(4,407,955)	(4,137,143)	(3,839,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	14,089,209	14,523,337	16,215,476	19,276,650	24,944,026	23,715,696	22,269,124	20,566,591	18,657,972	16,506,007	14,248,724	11,758,880	8,998,223
Transfer In	4,777,000	7,684,860	5,566,860	4,602,514	5,924,613	5,461,212	6,002,377	5,821,470	5,603,228	5,359,267	5,153,181	4,909,836	4,640,517	4,407,955	4,137,143	3,839,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	14,089,209	14,523,337	16,215,476	19,276,650	24,944,026	23,715,696	22,269,124	20,566,591	18,657,972	16,506,007	14,248,724	11,758,880	8,998,223	5,939,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	16,329,529	16,817,610	17,555,880	20,670,160	26,391,125	25,209,694	23,816,150	22,173,015	20,317,492	18,224,816	16,033,255	13,603,067	10,908,504	7,922,811

FUNDING SCENARIOS

Scenario Two:

- One dollar per unit per month in FY2025/26 then two dollars per unit per month starting in 2026/27 capping at \$50 in FY2034/35
- Ending Capital fund balance of \$5m
- Capital fund balance of \$10m requires rates to rise to \$58/month

Scenario Three:

- Annual one dollar per unit per month until FY2029/30 then two dollars per unit per month until FY2034/35 then four dollars capping at \$60 in FY2037/38
- Ending Capital fund balance of \$5m



SCENARIO TWO

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY 15 YEAR CASH FLOW PROJECTION WITH \$2 INCREASES

Operating Payment Rate	30	31	32	34	36	38	40	42	44	46	48	50	50	50	50	50
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,013,960	8,215,560	9,324,360	9,828,360	10,332,360	10,836,360	11,340,360	11,844,360	12,348,360	12,852,360	12,852,360	12,852,360	12,852,360	12,852,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,200,860)	(2,984,514)	(3,916,613)	(4,201,212)	(4,490,377)	(4,813,470)	(5,099,228)	(5,359,267)	(5,657,181)	(5,917,836)	(5,648,517)	(5,415,955)	(5,145,143)	(4,847,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,216,724	8,734,880	6,982,223
Transfer In	4,777,000	7,684,860	5,062,860	3,846,514	4,916,613	4,201,212	4,490,377	4,813,470	5,099,228	5,359,267	5,657,181	5,917,836	5,648,517	5,415,955	5,145,143	4,847,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,216,724	8,734,880	6,982,223	4,931,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	15,825,529	15,557,610	15,287,880	17,142,160	21,351,125	19,161,694	17,264,150	15,621,015	14,269,492	13,184,816	12,001,255	10,579,067	8,892,504	6,914,811

SCENARIO THREE

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY

15 YEAR CASH FLOW PROJECTION WITH \$1 INCREASES FOR THE FIRST FIVE YEARS, \$2 INCREASES FOR THE NEXT FOUR YEARS, \$4 INCREASES SUBSEQUENTLY

Operating Payment Rate	30	31	32	33	34	35	36	38	40	42	44	48	52	56	60	60
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,013,960	7,963,560	8,820,360	9,072,360	9,324,360	9,828,360	10,332,360	10,836,360	11,340,360	12,348,360	13,356,360	14,364,360	15,372,360	15,372,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,200,860)	(2,732,514)	(3,412,613)	(3,445,212)	(3,482,377)	(3,805,470)	(4,091,228)	(4,351,267)	(4,649,181)	(5,413,836)	(6,152,517)	(6,927,955)	(7,665,143)	(7,367,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	13,585,209	13,011,337	13,191,476	14,236,650	17,384,026	14,139,696	11,181,124	8,470,591	6,057,972	4,410,007	3,664,724	3,694,880	4,462,223
Transfer In	4,777,000	7,684,860	5,062,860	3,594,514	4,412,613	3,445,212	3,482,377	3,805,470	4,091,228	4,351,267	4,649,181	5,413,836	6,152,517	6,927,955	7,665,143	7,367,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	13,585,209	13,011,337	13,191,476	14,236,650	17,384,026	14,139,696	11,181,124	8,470,591	6,057,972	4,410,007	3,664,724	3,694,880	4,462,223	4,931,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	15,825,529	15,305,610	14,531,880	15,630,160	18,831,125	15,633,694	12,728,150	10,077,015	7,717,492	6,128,816	5,449,255	5,539,067	6,372,504	6,914,811

RATE SUMMARY

	Operating Rate	Methodology
Current	\$31 Month	
Scenario One	\$46	Increase of \$3 - five years
Scenario Two	\$50	Increase of \$1 and \$2 - nine years
Scenario Three	\$60	Increase of \$1, \$2 and \$4- eleven years

- Each \$1 increase results in a \$1,200 on-going budget impact for cities with 100 radios
- \$15 dollars is \$18,000 for those with 100 radios
- City of Pleasanton has 111 radios, Alameda County has 4,472

DISCUSSION POINTS

- What is an appropriate Reserve Fund Policy for Operating and Capital Funds?
- What rate structure is most appropriate to fund \$67m Infrastructure Replacement?

Scenario One:

- Across the board \$3.00 per unit per month increase for five years
- Results in Operating Payments of \$46 per unit per month
- Ending Capital Fund balance of \$6m in FY2038/39
- Agencies with Service Payments could defer until 2027/28 and remain at \$46

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY
15 YEAR CASH FLOW PROJECTION WITH \$3 INCREASES FOR FIRST FIVE YEARS

Operating Payment Rate	30	31	34	37	40	43	46	46	46	46	46	46	46	46	46	46
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,517,960	8,971,560	10,332,360	11,088,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360	11,844,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,704,860)	(3,740,514)	(4,924,613)	(5,461,212)	(6,002,377)	(5,821,470)	(5,603,228)	(5,359,267)	(5,153,181)	(4,909,836)	(4,640,517)	(4,407,955)	(4,137,143)	(3,839,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	14,089,209	14,523,337	16,215,476	19,276,650	24,944,026	23,715,696	22,269,124	20,566,591	18,657,972	16,506,007	14,248,724	11,758,880	8,998,223
Transfer In	4,777,000	7,684,860	5,566,860	4,602,514	5,924,613	5,461,212	6,002,377	5,821,470	5,603,228	5,359,267	5,153,181	4,909,836	4,640,517	4,407,955	4,137,143	3,839,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	14,089,209	14,523,337	16,215,476	19,276,650	24,944,026	23,715,696	22,269,124	20,566,591	18,657,972	16,506,007	14,248,724	11,758,880	8,998,223	5,939,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	16,329,529	16,817,610	17,555,880	20,670,160	26,391,125	25,209,694	23,816,150	22,173,015	20,317,492	18,224,816	16,033,255	13,603,067	10,908,504	7,922,811

Scenario Two:

- One dollar per unit per month in FY2025/26, two dollars starting in 2026/27 capping at \$50 in FY2034/35
- Ending Capital fund balance of \$5m
- Capital fund balance of \$10m requires rates to rise to \$58/month

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY																
15 YEAR CASH FLOW PROJECTION WITH \$2 INCREASES																
Operating Payment Rate	30	31	32	34	36	38	40	42	44	46	48	50	50	50	50	50
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,013,960	8,215,560	9,324,360	9,828,360	10,332,360	10,836,360	11,340,360	11,844,360	12,348,360	12,852,360	12,852,360	12,852,360	12,852,360	12,852,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,200,860)	(2,984,514)	(3,916,613)	(4,201,212)	(4,490,377)	(4,813,470)	(5,099,228)	(5,359,267)	(5,657,181)	(5,917,836)	(5,648,517)	(5,415,955)	(5,145,143)	(4,847,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,216,724	8,734,880	6,982,223
Transfer In	4,777,000	7,684,860	5,062,860	3,846,514	4,916,613	4,201,212	4,490,377	4,813,470	5,099,228	5,359,267	5,657,181	5,917,836	5,648,517	5,415,955	5,145,143	4,847,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,216,724	8,734,880	6,982,223	4,931,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	15,825,529	15,557,610	15,287,880	17,142,160	21,351,125	19,161,694	17,264,150	15,621,015	14,269,492	13,184,816	12,001,255	10,579,067	8,892,504	6,914,811

Scenario Two – Capital Fund \$10m:

- One dollar per unit per month in FY2025/26, two dollars starting in 2026/27 capping at \$58 in FY2038/39
- Capital fund balance of \$10m requires rates to rise to \$58/month

Operating Payment Rate	30	31	32	34	36	38	40	42	44	46	48	50	52	54	56	58
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,013,960	8,215,560	9,324,360	9,828,360	10,332,360	10,836,360	11,340,360	11,844,360	12,348,360	12,852,360	13,356,360	13,860,360	14,364,360	14,868,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,200,860)	(2,984,514)	(3,916,613)	(4,201,212)	(4,490,377)	(4,813,470)	(5,099,228)	(5,359,267)	(5,657,181)	(5,917,836)	(6,152,517)	(6,423,955)	(6,657,143)	(6,863,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,720,724	10,246,880	10,006,223
Transfer In	4,777,000	7,684,860	5,062,860	3,846,514	4,916,613	4,201,212	4,490,377	4,813,470	5,099,228	5,359,267	5,657,181	5,917,836	6,152,517	6,423,955	6,657,143	6,863,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	13,585,209	13,263,337	13,947,476	15,748,650	19,904,026	17,667,696	15,717,124	14,014,591	12,609,972	11,466,007	10,720,724	10,246,880	10,006,223	9,971,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	15,825,529	15,557,610	15,287,880	17,142,160	21,351,125	19,161,694	17,264,150	15,621,015	14,269,492	13,184,816	12,505,255	12,091,067	11,916,504	11,954,811

Scenario Three:

- Annual one dollar per unit per month until FY2029/30 then two dollars per unit per month until FY2034/35 then four dollars capping at \$60 in FY2037/38
- Ending Capital fund balance of \$5m

EAST BAY REGIONAL COMMUNICATIONS SYSTEM AUTHORITY																
15 YEAR CASH FLOW PROJECTION WITH \$1 INCREASES FOR THE FIRST FIVE YEARS, \$2 INCREASES FOR THE NEXT FOUR YEARS, \$4 INCREASES SUBSEQUENTLY																
Operating Payment Rate	30	31	32	33	34	35	36	38	40	42	44	48	52	56	60	60
	FY 2023-24 Projected	FY 2024-25 Budget	FY 2025-26 Forecast	FY 2026-27 Forecast	FY 2027-28 Forecast	FY 2028-29 Forecast	FY 2029-30 Forecast	FY 2030-31 Forecast	FY 2031-32 Forecast	FY 2032-33 Forecast	FY 2033-34 Forecast	FY 2034-35 Forecast	FY 2035-36 Forecast	FY 2036-37 Forecast	FY 2037-38 Forecast	FY 2038-39 Forecast
Operating Reserve																
Balance - beginning	1,998,000	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281
Receipts from members	7,521,000	12,064,360	8,013,960	7,963,560	8,820,360	9,072,360	9,324,360	9,828,360	10,332,360	10,836,360	11,340,360	12,348,360	13,356,360	14,364,360	15,372,360	15,372,360
Payments to suppliers	(3,848,000)	(4,777,000)	(4,961,280)	(5,177,093)	(5,361,616)	(5,574,042)	(5,788,395)	(5,975,991)	(6,188,104)	(6,425,696)	(6,638,082)	(6,875,236)	(7,138,121)	(7,376,748)	(7,641,123)	(7,932,253)
Transfer to Capital Reserve	(3,747,000)	(6,822,860)	(4,200,860)	(2,732,514)	(3,412,613)	(3,445,212)	(3,482,377)	(3,805,470)	(4,091,228)	(4,351,267)	(4,649,181)	(5,413,836)	(6,152,517)	(6,927,955)	(7,665,143)	(7,367,324)
Balance - ending	1,924,000	2,388,500	1,240,320	1,294,273	1,340,404	1,393,511	1,447,099	1,493,998	1,547,026	1,606,424	1,659,521	1,718,809	1,784,530	1,844,187	1,910,281	1,983,063
Debt Service Reserve																
Balance - beginning	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-
Service payment	1,680,000	1,512,000	1,512,000	1,512,000	-	-	-	-	-	-	-	-	-	-	-	-
Principal	(553,000)	(585,000)	(600,000)	(623,000)	-	-	-	-	-	-	-	-	-	-	-	-
Bond interest	(97,000)	(65,000)	(50,000)	(27,000)	-	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital Reserve	(1,030,000)	(862,000)	(862,000)	(862,000)	(1,000,000)	-	-	-	-	-	-	-	-	-	-	-
Balance - ending	1,000,000	1,000,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-
Capital Reserve																
Balance - beginning	11,087,000	12,096,000	13,199,860	13,585,209	13,011,337	13,191,476	14,236,650	17,384,026	14,139,696	11,181,124	8,470,591	6,057,972	4,410,007	3,664,724	3,694,880	4,462,223
Transfer In	4,777,000	7,684,860	5,062,860	3,594,514	4,412,613	3,445,212	3,482,377	3,805,470	4,091,228	4,351,267	4,649,181	5,413,836	6,152,517	6,927,955	7,665,143	7,367,324
Capital	(3,768,000)	(6,581,000)	(4,677,511)	(4,168,386)	(4,232,474)	(2,400,038)	(335,000)	(7,049,800)	(7,049,800)	(7,061,800)	(7,061,800)	(7,061,800)	(6,897,800)	(6,897,800)	(6,897,800)	(6,897,800)
Balance - ending	12,096,000	13,199,860	13,585,209	13,011,337	13,191,476	14,236,650	17,384,026	14,139,696	11,181,124	8,470,591	6,057,972	4,410,007	3,664,724	3,694,880	4,462,223	4,931,747
TOTAL RESERVE BALANCE	15,020,000	16,588,360	15,825,529	15,305,610	14,531,880	15,630,160	18,831,125	15,633,694	12,728,150	10,077,015	7,717,492	6,128,816	5,449,255	5,539,067	6,372,504	6,914,811