

City of South Charleston West Virginia Policemen's Pension and Relief Fund

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Bolton

Submitted by:

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November 29, 2023

Ms. Hannah Parsons City Treasurer City of South Charleston 238 Fourth Avenue/P.O. Box 8597 South Charleston, WV 25303 Sergeant Daniel Johnson Pension Board Secretary City of South Charleston Policemen's Pension and Relief Fund

Re: City of South Charleston Policemen's Pension and Relief Fund GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Dear Hannah,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of South Charleston Policemen's Pension and Relief Fund to be included in the City's financial statements for FY 2023. The GASB 67 information has been provided as of June 30, 2023 (the GASB 68 measurement date for FY 2023).

Methodology, Reliance and Certification

This report is prepared for the City. The report contains the actuarial information to be included with the City's financial statements for the year ending June 30, 2023 (the City's fiscal year end date) as required by GASB 68. This information has been prepared for use in the financial statements of the City. This information is not intended for, nor should it be used for, any additional purposes.

The total pension liability is based on the July 1, 2022 actuarial valuation rolled forward to June 30, 2023. The methods, assumptions, and participant data used are detailed in the July 1, 2022 actuarial valuation report with the exception of the actuarial cost method. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution (ADC) for the fiscal year ending June 30, 2023 is contained in the July 1, 2021 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations are based on a blended discount rate of 4.06%. The plan's expected gross rate of investment return of 4.25% has been blended with the 3.86% yield corresponding to the 20-year maturity on a municipal general obligation AA bond yield curve published on Fidelity's Fixed Income Market Data webpage as of June 30, 2023. The development of the blended discount rate is included within this report.

The long-term nominal expected rate of return on pension plan investments was determined using a methodology approved by the Municipal Pensions Oversight Board (MPOB) and is based on the funded status (current and projected), equity exposure, and funding policy.

The included calculations assume that the members and the City will continue to make all required contributions in accordance with the City's funding policy.

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Methodology, Reliance and Certification (cont.)

These calculations and comparisons with assets are applicable for the valuation date only. The future is uncertain, and the plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the plan will be able to provide the promised benefits in the future.

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain and the plan's actual experience will differ from the assumptions; the differences may be significant or material because the results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

The City is responsible for selecting the plan's funding policy based on five methods allowed for under state law. The actuarial valuation methods are chosen by the actuary in accordance with actuarial standards of practice promulgated by the Actuarial Standards Board of the American Academy of Actuaries and as required by GASB 67 & 68. The MPOB selects the asset valuation methods and assumptions; these selections are reviewed by a qualified actuary no less than every five years. The actuary shall provide a report to the Board with recommendations on any changes to the actuarial process. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in this report. The City and MPOB are solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

The City could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. That type of analysis would be a separate assignment.

The cost of this plan is determined by the benefits promised by the plan, the plan's participant population, the investment experience of the plan and many other factors. An actuarial valuation is a budgeting tool for the City or, in this case, a measure of accounting expense. It does not affect the cost of the plan. As the experience of the plan evolves, it is normal for the level of contributions and expense of the plan to change.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

The valuation was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.



Ms. Hannah Parsons November 29, 2023 Page 3

Methodology, Reliance and Certification (cont.)

This report is based on plan provisions, census data, and asset data submitted by the City. We have relied on this information for purposes of preparing this report, but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The plan sponsor is solely responsible for the validity and completeness of this information.

The City is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton Partners, Inc.'s actuaries have not provided any investment advice to the City.

The information in this report was prepared for the internal use of the City, the plan and their auditors in connection with our actuarial valuations of the pension plan as required by GASB 68. This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use or the reliance on this information by any other party.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, an assumption based on the expected long-term rate of return on plan investments is used. If the plan is expected to become insolvent, the return assumption is blended with a long-term municipal bond rate. Using a lower discount rate assumption, such as a rate solely based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

The undersigned enrolled actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The July 1, 2022 actuarial valuation report contains information that is integral to the results contained herein and a copy may be provided upon request.

Sincerely,

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James Ritchie, ASA, EA, FCA, MAAA



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Jordan McClane, FSA, EA, FCA, MAAA



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2023, were as follows:

Total pension liability	\$ 35,642,023
Plan fiduciary net position	 (4,443,937)
Employer's net pension liability	\$ 31,198,086
Plan fiduciary net position as a percentage of the total pension liability	12.47%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2022 rolled forward to June 30, 2023 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.50 percent
Salary increases	Rates vary by years of service
Single discount rate (BOY)	3.97%
Single discount rate (EOY)	4.06%
Investment rate of return (BOY)	4.25%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	4.25%, net of pension plan investment expense, including inflation
Long-term municpal bond rate (BOY)	3.69%
Long-term municpal bond rate (EOY)	3.86%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2063
Year assets are expected to be depleted	2035
for a closed plan	

The above is a summary of key actuarial assumptions. Full descriptions of the actuarial assumptions are available in the July 1, 2022 actuarial valuation report.

Sensitivity of the net pension liability to changes in the discount rate

	1% Decrease 3.06%	Current Discount Rate 4.06%	1% Increase 5.06%
Employer's net pension liability	\$ 37,654,478	\$ 31,198,086	\$ 26,150,249



Changes in the Net Pension Liability

		Increase (Decrease)
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/22	\$ 32,986,915	\$ 4,200,540	\$ 28,786,375
Changes for the year:			
Service cost	1,267,171		1,267,171
Interest	1,282,421		1,282,421
Changes of benefit terms	-		-
Differences between expected and actual experience	1,990,736		1,990,736
Changes of assumptions	(516,936)		(516,936)
Contributions - employer (including Premium Tax Allocation)		979,910	(979,910)
Contributions - member		248,223	(248,223)
Net investment income*		385,948	(385,948)
Benefit payments, including refunds of member contributions	(1,368,284)	(1,368,284)	-
Administrative expense		(2,400)	2,400
Other		-	-
Net Changes	2,655,108	243,397	2,411,711
Balances at 6/30/23	\$ 35,642,023	\$ 4,443,937	\$ 31,198,086
Return on Investments		9.3%	

*The Plan Fiduciary Net Position as of July 1, 2022 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2022 as provided in the prior GASB report. A difference of \$3,106 has been excluded from investment income for the measurement period ending June 30, 2023.



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2023

Note	Description	Amount
А	Service cost	\$ 1,267,171
В	Interest on the total pension liability	1,282,421
А	Changes of benefit terms	-
С	Differences between expected and actual experience	262,351
С	Changes of assumptions	(1,269,186)
А	Employee contributions	(248,223)
D	Projected earnings on pension plan investments	(175,494)
С	Differences between expected and actual earnings on	(42,199)
	plan investments	
А	Pension plan administrative expense	2,400
А	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 1,079,241

Notes:

- A Provided in the Changes in Net Pension Liability exhibit.
- B Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 32,986,915	100%	3.97%	\$ 1,309,581
Service cost (End of Year)	1,267,171	0%	3.97%	-
Benefit payments, including refunds of employee contributions	(1,368,284)	50%	3.97%	(27,160)
Total interest on the total pension liability				\$ 1,282,421

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	A	Mount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	E	rojected arnings x (b) x (c)
Beginning plan fiduciary net position	\$	4,200,540	100%	4.25%	\$	178,523
Employer contributions		979,910	50%	4.25%		20,823
Employee contributions		248,223	50%	4.25%		5,275
Benefit payments, including refunds of employee contributions		(1,368,284)	50%	4.25%		(29,076)
Administrative expense and other		(2,400)	50%	4.25%		(51)
Total Projected Earnings					\$	175,494



Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2023, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	Deferred Inflows of Resources				
Differences between expected and actual experience	\$ 1,871,342	\$	479,347			
Changes of assumptions	894,390		4,309,399			
Net difference between projected and actual earnings	-					
on pension plan investments			25,215			
Total	\$ 2,765,732	\$	4,813,961			

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	
2024	\$ (893,628)
2025	(933,554)
2026	(473,717)
2027	252,670
2028	-
Thereafter	-

Changes in the Employer's Net Pension Liability and Related Ratios Last 10 Fiscal Years

Total pension liability	2023	202	2	2021	2020	2019	2018	2017	2016	2015	2014
Service cost	\$ 1,267,171	\$ 1,4	35,399	\$ 1,641,213	\$ 1,494,784	\$ 1,334,339	\$ 1,293,506	\$ 1,452,634	\$ 844,315	\$ 770,721	\$ 695,410
Interest	1,282,421	1,0	95,911	1,234,911	1,203,810	1,136,491	1,101,668	983,495	1,009,150	1,046,913	1,072,680
Changes of benefit terms	-		-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	1,990,736	(1	21,369)	(1,109,611)	469,555	465,074	(326,827)	(114,902)	(1,122,758)	(551,459)	-
Changes of assumptions	(516,936)	(6,0	93,764)	(551,561)	2,041,623	116,447	(273,301)	(3,460,883)	6,786,401	1,290,559	1,185,493
Benefit payments, including refunds of member contributions	(1,368,284) (1,1	57,614)	(1,142,046)	(1,070,847)	(993,959)	(966,927)	(931,208)	(908,898)	(914,821)	(904,804)
Net change in total pension liability	2,655,108	(4,7	41,437)	72,906	4,138,925	2,058,392	828,119	(2,070,864)	6,608,210	1,641,913	2,048,779
Total pension liability - beginning	32,986,915	37,7	28,352	37,655,446	33,516,521	31,458,129	30,630,010	32,700,874	26,092,664	24,450,751	22,401,972
Total pension liability - ending (a)	\$ 35,642,023	\$ 32,9	36,915	\$ 37,728,352	\$ 37,655,446	\$ 33,516,521	\$ 31,458,129	\$ 30,630,010	\$ 32,700,874	\$ 26,092,664	\$ 24,450,751

Plan fiduciary net position	2023	2022	2021	2020		2019	2018		2017		2016	2015	2014
Contributions - employer (including Premium Tax Allocation)	\$ 979,910	\$ 1,015,962	\$ 1,277,663	\$ 930,991	\$	858,028	\$ 890,023	\$	769,020	\$	783,418	\$ 1,031,025	\$ 663,531
Contributions - member	248,223	227,034	191,751	184,742		158,248	158,248		145,280		143,722	131,662	126,660
Net investment income	385,948	(491,814)	801,982	222,488		114,488	154,866		156,124		(21,092)	83,283	237,716
Benefit payments, including refunds of member contributions	(1,368,284)	(1,157,614)	(1,142,046)	(1,070,847)		(993,959)	(966,927)		(931,208)		(908,898)	(914,821)	(904,804)
Administrative expense	(2,400)	(2,400)	(2,400)	(2,400)		(2,400)	(2,400)		(2,738)		(9,425)	(2,716)	(3,200)
Other	 -	-	-	-	_	-	-	_	-	_	2,294	35	29
Net change in plan fiduciary net position	\$ 243,397	\$ (408,832)	\$ 1,126,950	\$ 264,974	\$	134,405	\$ 233,810	\$	136,478	\$	(9,981)	\$ 328,468	\$ 119,932
Plan fiduciary net position - beginning	4,200,540	4,609,372	3,482,422	3,217,448		3,083,043	2,849,233		2,748,447		2,730,353	2,401,885	2,296,060
Plan fiduciary net position - ending (b)	\$ 4,443,937	\$ 4,200,540	\$ 4,609,372	\$ 3,482,422	\$	3,217,448	\$ 3,083,043	\$	2,884,925	\$	2,720,372	\$ 2,730,353	\$ 2,415,992
Employer's net pension liability - ending (a)-(b)	\$ 31,198,086	\$ 28,786,375	\$ 33,118,980	\$ 34,173,024	\$	30,299,073	\$ 28,375,086	\$	27,745,085	\$	29,980,502	\$ 23,362,311	\$ 22,034,759
Plan fiduciary net position as a percentage of the total pension liability	12.47%	12.73%	12.22%	9.25%		9.60%	9.80%		9.42%		8.32%	10.46%	9.88%
Covered payroll	\$ 2,658,342	\$ 2,249,629	\$ 2,280,309	\$ 2,348,074	\$	2,098,591	\$ 1,963,972	\$	1,828,610	\$	1,676,156	\$ 1,661,650	\$ 1,660,565
Employer's net pension liability as a percentage of covered payroll	1173.59%	1279.61%	1452.39%	1455.36%		1443.78%	1444.78%		1517.28%		1788.65%	1405.97%	1326.94%
Expected average remaining service years of all participants	5.00	5.00	5.00	7.00		6.00	6.45		6.19		6.10	5.97	N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2023.

Changes of assumptions: The discount rate changed from 3.97% to 4.06%.

*The Plan Fiduciary Net Position as of July 1, 2022 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2022 as provided in the prior GASB report. A difference of \$3,106 has been excluded from investment income for the measurement period ending June 30, 2023.

*After the June 30, 2020 GASB report was published, the asset reconciliation for the period July 1, 2019 through June 30, 2020 was updated pursuant to the financial audit. The differences for each of the line items between the pre- and post-audit reconciliations were added to the associated line items for the fiscal year ending June 30, 2021 reconciliation.

*The Plan Fiduciary Net Position as of July 1, 2019 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2019 as provided in the prior GASB report. The difference of \$100,322 has been included as investment income for the measurement period ending June 30, 2020.

*The Plan Fiduciary Net Position as of July 1, 2017, excludes \$35,692, which was included in the Plan Fiduciary Net Position as of June 30, 2017.

*The Plan Fiduciary Net Position as of July 1, 2016, includes \$28,075, which was excluded from the Plan Fiduciary Net Position as of June 30, 2016.

*The Plan Fiduciary Net Position as of July 1, 2014, excludes \$14,107, which was included in the Plan Fiduciary Net Position as of June 30, 2014.

Schedule of Employer Contributions Last 10 Fiscal Years

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Actuarially determined contribution	\$ 2,486,837	\$ 2,418,709	\$ 2,536,034	\$ 2,330,590	\$ 2,406,663	\$ 2,155,867	\$ 2,018,460	\$ 1,860,008	\$ 1,390,926	\$ 1,348,276
Contributions in relation to the actuarially determined contribution										
Employer provided	575,745	538,079	770,968	483,979	458,206	500,499	383,643	358,545	416,670	313,167
State provided	404,165	477,883	506,695	447,012	399,822	389,524	385,377	424,873	614,355	350,364
Contribution deficiency (excess)	\$ 1,506,927	\$ 1,402,747	\$ 1,258,371	\$ 1,399,599	\$ 1,548,635	\$ 1,265,844	\$ 1,249,440	1,076,590	\$ 359,901	\$ 684,745
Covered payroll	\$ 2,658,342	\$ 2,249,629	\$ 2,280,309	\$ 2,348,074	\$ 2,098,591	\$ 1,963,972	\$ 1,828,610	\$ 1,676,156	\$ 1,661,650	\$ 1,660,565
Contributions as a percentage of covered employee payroll	36.86%	45.16%	56.03%	39.65%	40.89%	45.32%	42.05%	46.74%	62.05%	39.96%

Notes to Schedule

Valuation date:

Actuarial determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. The assumption shown below are those used in the 7/1/2021 actuarial valuation to calculate the FY2023 ADC. Assumptions used to determine all contributions in the past would not have been the same.

Methods and assumptions used to determine	e contribution rates:
Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	15 to 27.5 years
Asset valuation method	4-year smoothed market
Inflation	2.50 percent
Salary increases	Rates vary by years of service
Investment rate of return	4.25%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019

Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

In conformity with paragraph 33b of Statement 68, the effects of differences between projected and actual earnings on pension plan investments are recognized in pension expense using a systematic and rational method over a closed five-year period, beginning in the current reporting period. The following table illustrates the application of this requirement.

Year	bet and or	Differences tween Projected I Actual Earnings n Pension Plan Investments	Recognition Period (Years)	2019	2020	2021	2022	2023	2024		2025	2026	2027
2019	\$	24,698	5	\$ 4,940	4,940	4,940	4,940	4,938					
2020		(76,747)	5		\$ (15,349)	(15,349)	(15,349)	(15,349)	(15,35	51)			
2021		(637,962)	5			\$ (127,592)	(127,592)	(127,592)	(127,59	2)	(127,594)		
2022		689,475	5				\$ 137,895	137,895	137,89	5	137,895	137,895	
2023		(210,454)	5					\$ (42,091)	(42,09	1)	(42,091)	(42,091)	(42,09
let increa	se (de	ecrease) in pension	expense					\$ (42,199)	\$ (47,13	(9)	\$ (31,790)	\$ 95,804	\$ (42,090

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Projected and Actual Earnings on Pension Plan Investments

					Balan June 3		
Year	tment Earnings than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	O R	Deferred utflows of esources (a) - (c)	l	Deferred Inflows of Resources (b) - (c)
2019	\$ 24,698	\$ -	\$ 24,698	\$	-	\$	-
2020	-	76,747	61,396		-		15,351
2021	-	637,962	382,776		-		255,186
2022	689,475	-	275,790		413,685		-
2023	-	210,454	42,091		-		168,363
				\$	413,685	\$	438,900

Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33a of Statement 68, the effects of differences between expected and actual experience are recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

							Increa	ase (Decrease) ir	Pension Expens	e Arising from	the Recognition	of Differences b	etween Expected	and Actual Expe	rience				
Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Thereafter
Prior	-	-																	-
2014	-	-																	
2015	(551,459)	5.965437			\$ (92,4	42) (92,442)	(92,442)	(92,442)	(92,442)	(89,249)									
2016	(1,122,758)	6.098031				\$ (184,118)	(184,118)	(184,118)	(184,118)	(184,118)	(184,118)	(18,050)							
2017	(114,902)	6.188496					\$ (18,567)	(18,567)	(18,567)	(18,567)	(18,567)	(18,567)	(3,500)						
2018	(326,827)	6.447419						\$ (50,691)	(50,691)	(50,691)	(50,691)	(50,691)	(50,691)	(22,681)					
2019	465,074	6.000000							\$ 77,512	77,512	77,512	77,512	77,512	77,514					
2020	469,555	7.000000								\$ 67,079	67,079	67,079	67,079	67,079	67,079	67,081			
2021	(1,109,611)	5.000000									\$ (221,922)	(221,922)	(221,922)	(221,922)	(221,923)				
2022	(21,369)	5.000000										\$ (4,274)	(4,274)	(4,274)	(4,274)	(4,273)			
2023	1,990,736	5.000000											\$ 398,147	398,147	398,147	398,147	398,148		
Net increase	se (decrease) in per	ision expense											\$ 262,351	\$ 293,863	\$ 239,029	\$ 460,955	\$ 398,148	\$ -	\$ -

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience

Year	Experience Losses (a)	Experier Gains (b)		Amounts Recognized in Pension Expense Throug June 30, 2023 (c)	June Deferred	lr R	
Prior	\$-	\$	-	\$	- \$ -	\$	-
2014	-		-				-
2015	-		551,459	551,45	i9 -		-
2016	-		1,122,758	1,122,75	- 88		-
2017	-		114,902	114,90	- 12		-
2018	-		326,827	304,14	- 16		22,681
2019	465,074		-	387,56	60 77,514		-
2020	469,555		-	268,31	6 201,239		-
2021			1,109,611	665,76	6 -		443,845
2022	-		21,369	8,54	- 18		12,821
2023	1,990,736		-	398,14	7 1,592,589		-
					\$ 1,871,342	\$	479,347

In conformity with paragraph 33a of Statement 68, the effects of changes of assumptions should be recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension functional method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension and the pension and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

B

								Inc	rease (Decrease	e) in Pension Exp	ense Arising fro	m the Effects of C	hanges of Assum	ptions					
	Changes of	Recognition Period																	
Year	Assumptions	(Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Thereafter
Prior	\$-	-																	
2014		-																	
2015	1,290,559	5.965437			\$ 216,339	216,339	216,339	216,339	216,339	208,864									
2016	6,786,401	6.098031				\$ 1,112,884	1,112,884	1,112,884	1,112,884	1,112,884	1,112,884	109,097							
2017	(3,460,883)	6.188496					\$ (559,245)	(559,245)	(559,245)	(559,245)	(559,245)	(559,245)	(105,413)						
2018	(273,301)	6.447419						\$ (42,389)	(42,389)	(42,389)	(42,389)	(42,389)	(42,389)	(18,967)					
2019	116,447	6.000000							\$ 19,408	19,408	19,408	19,408	19,408	19,407					
2020	2,041,623	7.000000								\$ 291,660	291,660	291,660	291,660	291,660	291,660	291,663			
2021	(551,561)	5.000000									\$ (110,312)	(110,312)	(110,312)	(110,312)	(110,313)				
2022	(6,093,764)	5.000000										\$ (1,218,753)	(1,218,753)	(1,218,753)	(1,218,753)	(1,218,752)			
2023	(516,936)	5.000000											\$ (103,387)	(103,387)	(103,387)	(103,387)	(103,388)		
Net increas	e (decrease) in pen	sion expense											\$ (1,269,186)	\$ (1,140,352)	\$ (1,140,793)	\$ (1,030,476)	\$ (103,388)	\$-	\$

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Changes of Assumptions

					ces at 0, 2023
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$-	\$-	\$-	\$-	\$-
2014			-	-	
2015	1,290,559		1,290,559	-	-
2016	6,786,401		6,786,401	-	-
2017	-	3,460,883	3,460,883	-	-
2018		273,301	254,334	-	18,967
2019	116,447		97,040	19,407	-
2020	2,041,623		1,166,640	874,983	-
2021	-	551,561	330,936	-	220,625
2022	-	6,093,764	2,437,506	-	3,656,258
2023	-	516,936	103,387	-	413,549
				\$ 894,390	\$ 4,309,399



Projection of Pension Plan's Fiduciary Net Position

	Gr	oss Normal Co (BOY)	ost	_	Empl	oyee Contrib (BOY)	oution	15	_	Emp		er Normal ((BOY)	Cost				xpens (MOY		_			Empl		Contribut	tions	; 	_	Prem	ium Ta: (MC		ation
				-								. ,					•													· ·	
Fiscal Year	Current Members	Future Members	Total		Current <i>I</i> embers	Future Members		Total		Current lembers		Future embers	Total		urrent mbers		Futur Iembe		т	otal		Current Members		Future embers		Total		urrent mbers	Futi Memi		Total
2023	\$ 1,130,285	\$-	\$ 1,130,285	\$	248,223	\$-	\$	248,223	\$	882,062	\$	-	\$ 882,062	\$	2,40	0\$		- :	\$	2,400	\$	575,745	\$	-	\$	575,745	\$	404,165	\$	-	\$ 404,165
2024	\$ 1,073,077	\$ 103,762	\$ 1,176,839	\$	211,999	\$ 21,855	5\$	233,854	\$	861,078	\$	81,907	\$ 942,985	\$	2,52	2\$		- :	\$	2,522	\$	532,418	\$	83,629	\$	616,047	\$	488,913	\$	-	\$ 488,913
2025	\$ 1,027,117	\$ 206,624	\$ 1,233,741	\$	203,930	\$ 43,474	\$	247,404	\$	823,187	\$	163,150	\$ 986,337	\$	2,49	3\$		121 \$	\$	2,614	\$	492,468	\$	166,702	\$	659,170	\$	492,575	\$	-	\$ 492,575
2026	\$ 985,447	\$ 301,511	\$ 1,286,958	\$	196,611	\$ 63,375	5\$	259,986	\$	788,836	\$	238,136	\$ 1,026,972	\$	2,46	1\$		218	\$	2,679	\$	461,950	\$	243,362	\$	705,312	\$	516,618	\$	-	\$ 516,618
2027	\$ 967,499	\$ 392,926	\$ 1,360,425	\$	192,734	\$ 82,514	1\$	275,248	\$	774,765	\$	310,412	\$ 1,085,177	\$	2,39	3\$		353 3	\$	2,746	\$	437,391	\$	317,293	\$	754,684	\$	528,810	\$	-	\$ 528,810
2028	\$ 945,245	\$ 475,444	\$ 1,420,689	\$	188,494	\$ 99,729	\$	288,223	\$	756,751	\$	375,715	\$ 1,132,466	\$	2,38	7\$		396	\$	2,783	\$	423,500	\$	384,012	\$	807,512	\$	541,307	\$	-	\$ 541,307
2029	\$ 896,941	\$ 567,480	\$ 1,464,421	\$	180,860	\$ 118,910	\$	299,770	\$	716,081	\$	448,570	\$ 1,164,651	\$	2,37	9\$		474 \$	\$	2,853	\$	405,561	\$	458,477	\$	864,038	\$	554,115	\$	-	\$ 554,115
2030	\$ 849,494	\$ 679,918	\$ 1,529,412	\$	173,548	\$ 142,364	1\$	315,912	\$	675,946	\$	537,554	\$ 1,213,500	\$	2,36	9 \$		588 \$	\$	2,957	\$	375,075	\$	549,446	\$	924,521	\$	571,532	\$	-	\$ 571,532
2031	\$ 824,827	\$ 778,759	\$ 1,603,586	\$	169,624	\$ 162,894	\$	332,518	\$	655,203	\$	615,865	\$ 1,271,068	\$	2,35	7\$		674	\$	3,031	\$	359,747	\$	629,490	\$	989,237	\$	586,485	\$	-	\$ 586,485
2032		\$ 869,380	\$ 1,672,956	\$	166,009	\$ 181,654		347,663	\$	637,567	\$		\$ 1,325,293	\$	2,34			764	\$	3,107	\$		•	702,952	\$	1,058,484	•		\$	-	\$ 604,479
2033	\$ 768,041	\$ 967,157	\$ 1,735,198	\$	159,591	\$ 201,894		361,485	\$	608,450	\$		\$ 1,373,713	\$	2,32			858 \$	-	3,185	\$	350,364	\$	- /	\$	1,132,578	•	••••••	\$	-	\$ 618,824
2034	• /	• • • • •	\$ 1,795,337	\$	150,449	\$ 224,803		375,252	\$	/	•	,	\$ 1,420,085	\$	2,34	•		918	•	3,265	\$		•			1,211,858	•		\$	-	\$ 635,381
2035	\$ 668,320	\$ 1,199,099		\$	141,728	\$ 249,924		391,652	\$	526,592			\$ 1,475,767	\$	2,32	•		057 \$	•	3,384	\$,	•	, -		1,296,688	•		\$	-	\$ 653,969
2036	\$ 631,105	\$ 1,324,653	\$ 1,955,758	\$	135,072	\$ 275,878		410,950	\$	496,033	•		\$ 1,544,808	\$	2,38			122 \$	•	3,507	\$					1,387,456	•		\$	-	\$ 672,048
2037				\$	126,377	\$ 300,070		426,447	\$	460,948			\$ 1,603,044	\$	2,36			233	•	3,595	\$					1,484,578		692,130		-	\$ 692,130
2038			* , ., .	\$	118,757	\$ 328,094		446,851	\$		÷ .		\$ 1,681,422	\$	2,37			306 \$	•	3,685	\$					1,588,498		, -	\$	-	\$ 727,726
2039	\$ 534,154			\$	115,329	\$ 351,689		467,018	\$	418,825			\$ 1,760,672	\$	2,39			382 3	•	3,777	\$					1,699,693		- / -	\$	-	\$ 745,072
2040				\$	107,999	\$ 375,920		483,919	\$				\$ 1,826,745	\$	2,41			461 \$		3,871	\$					1,818,672			\$	-	\$ 762,851
2041	\$ 429,754	\$ 1,954,594	\$ 2,384,348	\$	94,046	\$ 404,992		499,038	\$	335,708			\$ 1,885,310	\$	2,42			586 \$	-	4,011	\$	362,205				1,945,979		781,076	\$	-	\$ 781,076
2042		\$ 2,122,456		\$	77,551	\$ 439,441		516,992	\$	1			\$ 1,954,999	\$	2,43			716	•	4,155	\$, ., .		2,082,198		818,055		-	\$ 818,055
2043			\$ 2,573,942	\$	63,548	\$ 474,425		537,973	\$		•		\$ 2,035,969	\$	2,40			855 \$		4,259	\$					2,227,952		840,914		-	\$ 840,914
2044	\$ 222,008	\$ 2,437,948		\$	51,502	\$ 504,396		555,898	\$	170,506			\$ 2,104,058	\$	2,41		.,	997 \$		4,412	\$. ,		,,	\$	2,383,909	•		\$	-	\$ 874,056
2045	\$ 179,503 \$ 142,410	• / /-	\$ 2,763,844	\$ \$	42,692 34,874	\$ 535,509		578,201	\$	136,811	•		\$ 2,185,643	\$ \$	2,42 2.48			145 S 198 S	•	4,570	\$ \$,	•		\$	2,550,783	•	,	\$	-	\$ 895,001 \$ 937,171
2046 2047	÷ ··=,··•			э \$	34,874 26,945	\$ 563,051 \$ 593,857		597,925 620.802	\$ \$	107,536 80.061			\$ 2,257,535 \$ 2,342,880	2	2,48			198 3 356 3	•	4,684 4.851	ծ Տ				\$ \$	2,729,338 2,920,392	-	937,171 959.709	ծ Տ	-	\$ 937,171 \$ 959,709
2047 2048	\$ 107,006 \$ 84,137	\$ 2,856,676		ծ Տ	26,945	\$ 593,857		642,553	ծ Տ	62,593	•	, . ,	\$ 2,342,880 \$ 2,423,828	ə S	2,49			356 : 469 :	•	4,851	ծ Տ		•			2,920,392	•	959,709 982.810		-	\$ 959,709 \$ 982,810
2048	\$ 62.718	\$ 2,902,244 \$ 3.114.620		э \$	21,344	\$ 649,457		665.917	э \$	46.258			\$ 2,423,626 \$ 2.511.421	ې د	2,50			409 . 695 :	•	4,972 5,149	э S	823.858			э S	3,124,619	•	,	э \$	-	\$ 982,810 \$ 1.030.434
2049		\$ 3,243,210	, ,	φ \$	11.684	\$ 677.216		688,900	s s	32.005	•	, ,	\$ 2,597,999	s	2,43	•		763	-	5,278	s	954.888	•		ş S	3,543,550		102,342			\$ 1,000,404 \$ 1,102,342
2050	• • • • • •	\$ 3,380,142		\$	7.975	\$ 706,799		714,774	\$	21.664			\$ 2,695,007	ŝ	2,51			891 3	•	5,410	\$		•		s	3.828.037			\$	-	\$ 1.128.904
2052	\$ 20,916		\$ 3,531,177	\$	5,700	\$ 734,521		740.221	\$	15 216			\$ 2,790,956	ŝ	2,46			140	•	5.602	s		•		\$	4.096.000	• •		\$	-	\$ 1,156,130
2053	• • • • •	\$ 3,644,642		\$	3,359	\$ 762.770		766.129	\$	8.893	•	, ., .	\$ 2,890,765	ŝ	2,46		- /	280	•	5,742	ŝ	, , .			ŝ	4.382.720		218,375		-	\$ 1,218,375
2054	\$ 6.559	\$ 3,779,491		\$	1.799	\$ 791,126		792.925	ŝ	4,760			\$ 2,993,125	ŝ	2,46			426	•	5.886	ŝ	, ,			\$	4,689,510			\$	-	\$ 3,830,623
2055	\$ 3.874	\$ 3,916,468		\$	1.064	\$ 819,933		820.997	\$	2.810			\$ 3.099.345	ŝ	2.45			637 5	•	6.094	•					5.017.776		925,755		-	\$ 3,925,755
2056	• • • • •	\$ 4,057,311		ŝ	591	\$ 849.621		850.212	ŝ	1			\$ 3,209,230	ŝ	2,45		,	794	•	6.246		//-			\$	5,369,020		187,382		-	\$ 4,187,382
2057	\$ 1,221			\$	339	\$ 880,200		880,539	\$	882			\$ 3,323,244	\$	2,44			957 \$	•	6,402	\$	2,348,666			\$	5,744,851			\$	-	\$ 5,354,100
2058	• •	• • • • • •		\$		\$ 910,800		910,977	\$				\$ 3,437,938	s	2,43			125	•	6,562	ŝ		•		\$	6,146,991		760,278		-	\$ 5,760,278
2059		\$ 4,503,573		\$	90	\$ 943,288		943,378	\$				\$ 3,560,511	\$	2,42			366		6,793	•				\$	6,577,280		904,002			\$ 5,904,002
2060	\$ 129	\$ 4,666,865	\$ 4,666,994	\$	37	\$ 977,286	5 \$	977,323	\$	92	\$ 3		\$ 3,689,671	\$	2,41	5\$	4,	548	\$	6,963	\$	3,265,975	\$ 3	8,771,715	\$	7,037,690	\$ 6.	051,319	\$	-	\$ 6,051,319
2061	\$ 80			\$	23	\$ 1,012,160)\$	1,012,183	\$				\$ 3,822,273	\$	2,32	5\$	4.	812	\$	7,137	\$					7,530,328		202,319			\$ 6,202,319
2062	\$ 27	\$ 5,000,938	\$ 5,000,965	\$	8	\$ 1,046,997		1,047,005	\$	19			\$ 3,953,960	\$	2,30		5,	009 \$	\$	7,315	\$	4,015,354	\$ 4	,042,097	\$	8,057,451			\$	-	\$ 7,736,353
2063	\$ -	\$ 5,176,322	\$ 5,176,322	\$	-	\$ 1,083,695	5\$	1,083,695	\$	-	\$4	1,092,627	\$ 4,092,627	\$	2,28	5\$	5,	213	\$	7,498	\$	4,437,570	\$ 4	,183,903	\$	8,621,473	\$4,	700,480	\$	-	\$ 4,700,480



Projection of Pension Plan's Fiduciary Net Position

		Actu	arial Accrued Liability (E	BOY)						CI	osed	d Group Asset Projecti	on		
Fiscal Year	Cu	rrent Members	Future Members		Total	Fi	iduciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	Pro	ojected ER Contrib + Premium Tax (MOY)	Projected BP (MOY)	Projected Admin Expenses (MOY)	Projected Investment Earnings
2023	\$	33,387,537	\$-	\$	33,387,537	\$	4,200,540	12.58%	\$	248,223	\$	979,910	\$ 1,368,284	\$ 2,400	\$ 385,948
2024	\$	34,587,772	\$-	\$	34,587,772	\$	4,443,937	12.85%	\$	216,457	\$	1,021,331	\$ 1,347,086	\$ 2,522	\$ 186,516
2025	\$	35,801,021	\$ 107,063	\$	35,908,084	\$	4,518,633	12.62%	\$	208,218	\$	985,043	\$ 1,406,767	\$ 2,493	\$ 187,500
2026	\$	36,956,984	\$ 322,912	\$	37,279,896	\$	4,490,134	12.15%	\$	200,746	\$	978,568	\$ 1,455,948	\$ 2,461	\$ 184,962
2027	\$	38,068,419	\$ 642,075	\$	38,710,494	\$	4,396,001	11.55%	\$	196,787	\$	966,201	\$ 1,475,230	\$ 2,393	\$ 180,214
2028	\$	39,188,692	\$ 1,063,922	\$	40,252,614	\$	4,261,580	10.87%	\$	192,458	\$	964,807	\$ 1,497,881	\$ 2,387	\$ 173,904
2029	\$	40,310,250	\$ 1,582,794	\$	41,893,044	\$	4,092,481	10.15%	\$	184,663	\$	959,676	\$ 1,557,081	\$ 2,379	\$ 165,201
2030	\$	41,368,672	\$ 2,212,365	\$	43,581,037	\$	3,842,562	9.29%	\$	177,198	\$	946,607	\$ 1,615,759	\$ 2,369	\$ 152,914
2031	\$	42,362,701	\$ 2,976,715	\$	45,339,416	\$	3,501,152	8.26%	\$	173,191	\$	946,232	\$ 1,642,133	\$ 2,357	\$ 137,757
2032	\$	43,346,333	\$ 3,865,971	\$	47,212,304	\$	3,113,842	7.18%	\$	169,500	\$	960,011	\$ 1,688,287	\$ 2,343	\$ 120,539
2033	\$	44,302,490	\$ 4,875,298	\$	49,177,788	\$	2,673,262	6.03%	\$	162,947	\$	969,188	\$ 1,764,338	\$ 2,327	\$ 100,270
2034	\$	45,184,588	\$ 6,017,342	\$	51,201,930	\$	2,139,003	4.73%	\$	153,613	\$	975,420	\$ 1,865,134	\$ 2,347	\$ 75,379
2035	\$	45,948,644	\$ 7,310,325	\$	53,258,969	\$	1,475,934	3.21%	\$	144,708	\$	980,465	\$ 1,963,679	\$ 2,327	\$ 45,045
2036	\$	46,593,212	\$ 8,769,867	\$	55,363,079	\$	680,146	1.46%	\$	137,912	\$	987,552	\$ 2,042,183	\$ 2,385	\$ 9,578
2037	\$	47,146,223	\$ 10,405,225	\$	57,551,448	\$	-	0.00%	\$	129,035	\$	1,009,362	\$ 2,141,896	\$ 2,362	\$-
2038	\$	47,575,286	\$ 12,214,011	\$	59,789,297	\$	-	0.00%	\$	121,254	\$	1,038,689	\$ 2,212,611	\$ 2,379	\$-
2039	\$	47,911,716	\$ 14,223,509	\$	62,135,225	\$	-	0.00%	\$	117,754	\$	1,073,318	\$ 2,248,001	\$ 2,395	\$-
2040	۲	48,209,546			64,629,483	\$		0.00%	s.	110,270	\$	1,113,310			s -
2041	\$	48,413,604			67,226,397	\$		0.00%	s	96,024		1,143,281			
2042	\$	48,435,568			69,867,803	\$	-	0.00%	ŝ	79,182		1,180,130			
2043	s	48,248,102			72,561,598	\$	-	0.00%	ŝ	64,884		1,209,835			
2044	s	47,883,715			75,353,457	\$	-	0.00%	s.	52,585		1,281,756			
2045	\$	47,355,398			78,221,218	\$	-	0.00%	ŝ	43,590		1,351,722			
2046	s	46,707,264			81,190,570	\$	-	0.00%	s.	35.607		1,469,100			
2047	ŝ	45,939,277		•	84,240,929	\$	-	0.00%	ŝ	27,512	•	1,567,341			•
2048	\$	45,055,281			87,393,402	\$	-	0.00%	ŝ	21,997		1,694,271			•
2049	\$	44,084,220			90,642,497	\$		0.00%	ŝ	16,806		1,854,292			\$ -
2050	\$	43,032,169			93,994,699	\$		0.00%	\$	11,930		2,057,230			
2051	\$	41,896,057			97,440,277	\$		0.00%	ŝ	8,143		2,224,490			
2052	\$	40,699,762			101,010,746	\$		0.00%	\$	5,820		2,414,879			
2053	\$	39,456,883			104,701,825	\$	-	0.00%	ŝ	3,430		2,655,340			
2054	\$	38,168,750			108,507,359	\$		0.00%	ŝ	1,837		5,465,500			
2055	\$	36,849,011			112,433,799	\$	2,631,049	7.14%	\$	1,086		5,778,242			
2056	\$	35,508,972			116,491,524	\$	5,731,060	16.14%	\$	603		6,277,464			
2057	φ \$	34,153,584			120,690,895	\$	9,515,474	27.86%	ф \$	346		7,702,766			
2057	э S	32,787,449			125,039,504	ې \$	14,963,551	45.64%	э S	181	•	8,393,370			
2058	э \$	32,787,449			129,532,666	ې \$	21,399,084	45.64% 68.12%	ծ Տ	92	•	8,841,762		•	• • • • • • • • • • • • • • • • • • • •
2059	э \$	31,413,582			134,181,256	ې \$	28,619,623	95.29%	ծ Տ		э \$	9,317,294			
2060	ծ Տ	28,653,274			139,003,404	ې \$	36,688,663	95.29% 128.04%	ə Տ	23		9,825,242			
2061	ծ Տ	28,653,274 27,271,306			139,003,404	ծ Տ	45,677,622	128.04%	ծ Տ	23	•	9,825,242 11,751,707			
									ծ Տ						
2063	\$	25,890,588	\$ 123,290,732	Ф	149,181,320	\$	57,075,630	220.45%	\$	-	\$	9,138,050	\$ 2,427,113	\$ 2,285	\$ 2,566,790



Projection of Pension Plan's Fiduciary Net Position

	"Fun	ded" Portion of	"Unfu	nded" Portion of					P\	/ of BP Using a
iscal Year		BP		BP	PV c	of "Funded" BP	PV of	f "Unfunded" BP		Single DR
2023	\$	1,368,284	\$	-	\$	1,340,103	\$	-	\$	1,341,34
2024	\$	1,347,086	\$	-	\$	1,265,556	\$	-	\$	1,269,07
2025	\$	1,406,767	\$	-	\$	1,267,745	\$	-	\$	1,273,62
2026	\$	1,455,948	\$	-	\$	1,258,577	\$	-	\$	1,266,75
2027	\$	1,475,230	\$	-	\$	1,223,256	\$	-	\$	1,233,48
2028	\$	1,497,881	\$	-	\$	1,191,404	\$	-	\$	1,203,58
2029	\$	1,557,081	\$	-	\$	1,188,001	\$	-	\$	1,202,37
2030	\$	1,615,759	\$	-	\$	1,182,513	\$	-	\$	1,199,03
2031	\$	1,642,133	\$	-	\$	1,152,821	\$	-	\$	1,171,09
2032	\$	1,688,287	\$	-	\$	1,136,904	\$	-	\$	1,157,06
2033	\$	1,764,338	\$	-	\$	1,139,681	\$	-	\$	1,162,03
2034	\$	1,865,134	\$	-	\$	1,155,674	\$	-	\$	1,180,52
2035	\$	-	\$	1,963,679	\$	-	\$	1,223,113	\$	1,194,43
2036	\$	-	\$	2,042,183	\$	-	\$	1,224,736	\$	1,193,75
2037	\$	-	\$	2,141,896	\$	-	\$	1,236,795	\$	1,203,22
2038	\$	-	\$	2,212,611	\$	-	\$	1,230,145	\$	1,194,48
2039	\$	-	\$	2,248,001	\$	-	\$	1,203,370	\$	1,166,26
2040	\$	-	\$	2,315,529	\$	-	\$	1,193,451	\$	1,154,46
2041	\$	-	\$	2,432,480	\$	-	\$	1,207,134	\$	1,165,48
2042	\$	-	\$	2,556,605	\$	-	\$	1,221,579	\$	1,177,19
2043	\$	-	\$	2,651,685	\$	-	\$	1,219,920	\$	1,173,36
2044	\$	-	\$	2,737,257	\$	-	\$	1,212,486	\$	1,164,00
2045	\$	-	\$	2,789,216	\$	-	\$	1,189,584	\$	1,139,85
2046	\$	-	\$	2,841,749	\$	-	\$	1,166,945	\$	1,116,04
2047	\$	-	\$	2,887,253	\$	-	\$	1,141,566	\$	1,089,69
2048	\$	-	\$	2,912,379	\$	-	\$	1,108,704	\$	1,056,32
2049	\$	-	\$	2,929,412	\$	-	\$	1,073,742	\$	1,021,07
2050	\$	-	\$	2,948,521	\$	-	\$	1,040,580	\$	987,66
2051	\$	-	\$	2,945,829	\$	-	\$	1,000,992	\$	948,28
2052	\$	-	\$	2,932,751	\$	-	\$	959,511	\$	907,26
2053	\$	-	\$	2,916,493	\$	-	\$	918,729	\$	867,05
2054	\$	-	\$	2,888,017	\$	-	\$	875,947	\$	825,11
2055	\$	-	\$	2,850,224	\$	-	\$	832,355	\$	782,56
2056	\$	2,807,698	\$	-	\$	696,309	\$	-	\$	740,83
2057	\$	2,760,877	\$	-	\$	656,784	\$	-	\$	700,07
2058	φ \$	2,710,979	\$	-	\$	618,623	Ψ \$	-	\$	660,61
2059	Ψ \$	2,658,331	Ψ \$	-	Ψ \$	581,879	Ψ \$	-	↓ \$	622,52
2059	\$ \$	2,603,348	ф \$	-	Գ \$	546,613	ֆ \$	-	գ \$	585,88
2060	э \$	2,603,346	ф \$	-	э \$	540,013	э \$	-	ъ \$	550,69
2061				-				-		
2062 2063	\$ \$	2,487,468 2,427,113	\$ \$	-	\$ \$	480,566 449,790	\$ \$	-	\$ \$	517,00 484,78