

Municipal Pensions Oversight Board

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

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021

Bolton

Submitted by: James Ritchie, ASA, EA, FCA, MAAA President of Bolton Retirement 443.573.3924 jritchie@boltonusa.com

Jordan McClane, FSA, EA, FCA, MAAA Actuary 667.218.6935 jmcclane@boltonusa.com



December 3, 2021

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, 2021

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 2021. The GASB 67 information has been provided as of June 30, 2021 (the GASB 68 measurement date for FY 2021).

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, 2021 (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, 2020 actuarial valuation rolled forward to June 30, 2021. The methods, assumptions, and participant data used are detailed in the July 1, 2020 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, 2021 is contained in the July 1, 2019 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 2.95%. The plan's expected gross rate of investment return of 4.25% has been blended with the 1.92% 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, 2021. 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.

Ms. Hannah Parsons December 3, 2021 Page 2

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 four 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 December 3, 2021 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, 2020 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, 2021, were as follows:

Total pension liability	\$ 37,728,352
Plan fiduciary net position	 (4,609,372)
Employer's net pension liability	\$ 33,118,980
Plan fiduciary net position as a percentage of the total pension liability	12.22%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2020 rolled forward to June 30, 2021 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)	3.33%
Single discount rate (EOY)	2.95%
Investment rate of return (BOY)	4.50%, 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)	2.45%
Long-term municpal bond rate (EOY)	1.92%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2062
Year assets are expected to be depleted	2030
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, 2020 actuarial valuation report.

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

	1% Decrea: 1.95%	Current se Discount Rate 2.95%	1% Incre 3.95%	
Employer's net pension liability	\$ 40,647,	477 \$ 33,118,980	\$ 27,33	3,895



Changes in the Net Pension Liability

	I Total Pension	Increase (Decrease Plan Fiduciary) Net Pension
	Liability (a)	Net Position (b)	Liability (a) - (b)
Balances at 6/30/20	\$ 37,655,446	\$ 3,482,422	\$ 34,173,024
Changes for the year:			
Service cost	1,641,213		1,641,213
Interest	1,234,911		1,234,911
Changes of benefit terms	-		-
Differences between expected and actual experience	(1,109,611)		(1,109,611)
Changes of assumptions	(551,561)		(551,561)
Contributions - employer (including Premium Tax Allocation)		1,277,663	(1,277,663)
Contributions - member		191,751	(191,751)
Net investment income		801,982	(801,982)
Benefit payments, including refunds of member contributions	(1,142,046)	(1,142,046)	-
Administrative expense		(2,400)	2,400
Other		-	-
Net Changes	72,906	1,126,950	(1,054,044)
Balances at 6/30/21	\$ 37,728,352	\$ 4,609,372	\$ 33,118,980
Return on Investments		22.0%	



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2021

Note	Description	Amount
А	Service cost	\$ 1,641,213
В	Interest on the total pension liability	1,234,911
А	Changes of benefit terms	-
С	Differences between expected and actual experience	(330,707)
С	Changes of assumptions	712,006
А	Employee contributions	(191,751)
D	Projected earnings on pension plan investments	(164,020)
С	Differences between expected and actual earnings on	(157,398)
	plan investments	
А	Pension plan administrative expense	2,400
А	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 2,746,654

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	\$ 37,655,446	100%	3.33%	\$ 1,253,926
Service cost (End of Year)	1,641,213	0%	3.33%	-
Benefit payments, including refunds of employee contributions	(1,142,046)	50%	3.33%	(19,015)
Total interest on the total pension liability				\$ 1,234,911

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	\$	3,482,422	100%	4.50%	\$	156,709
Employer contributions		1,277,663	50%	4.50%		28,747
Employee contributions		191,751	50%	4.50%		4,314
Benefit payments, including refunds of employee contributions		(1,142,046)	50%	4.50%		(25,696)
Administrative expense and other		(2,400)	50%	4.50%		(54)
Total Projected Earnings					\$	164,020



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

At June 30, 2021, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	erred Inflows Resources
Differences between expected and actual experience	\$ 567,935	\$ 1,051,869
Changes of assumptions	1,625,623	1,209,652
Net difference between projected and actual earnings	-	
on pension plan investments		556,623
Total	\$ 2,193,558	\$ 2,818,144

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:	
2022	\$ (604,503)
2023	(216,571)
2024	(61,165)
2025	(101,091)
2026	358,744
Thereafter	-

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

Total pension liability	202	1	2	2020	2019	2018	2017	2016	2015	2014	2013		2012
Service cost	\$ 1,64	1,213	\$	1,494,784	\$ 1,334,339	\$ 1,293,506	\$ 1,452,634	\$ 844,315	\$ 770,721	\$ 695,410	\$	-	\$ -
Interest	1,23	4,911		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	(1,10	9,611)		469,555	465,074	(326,827)	(114,902)	(1,122,758)	(551,459)	-		-	-
Changes of assumptions	(55	1,561)	2	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	(1,14	2,046)	(*	1,070,847)	(993,959)	(966,927)	(931,208)	(908,898)	(914,821)	(904,804)		-	-
Net change in total pension liability	7	2,906	4	4,138,925	2,058,392	828,119	(2,070,864)	6,608,210	1,641,913	2,048,779		-	-
Total pension liability - beginning	37,65	5,446	33	3,516,521	31,458,129	30,630,010	32,700,874	26,092,664	24,450,751	22,401,972		-	-
Total pension liability - ending (a)	\$ 37,72	8,352	\$ 37	7,655,446	\$ 33,516,521	\$ 31,458,129	\$ 30,630,010	\$ 32,700,874	\$ 26,092,664	\$ 24,450,751	\$	-	\$ -

Plan fiduciary net position	2021	2020		2019	2018		2017	2016		2015		2014	2013		2012
Contributions - employer (including Premium Tax Allocation)	\$ 1,277,663	\$ 930,991	\$	858,028	\$ 890,023	\$	769,020	\$ 783,418	\$	1,031,025	\$	663,531	\$ -	\$	-
Contributions - member	191,751	184,742		158,248	158,248		145,280	143,722		131,662		126,660	-		-
Net investment income	801,982	222,488		114,488	154,866		156,124	(21,092)		83,283		237,716	-		-
Benefit payments, including refunds of member contributions	(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)		(2,738)	(9,425)		(2,716)		(3,200)	-		-
Other	 -	-	_	-	-	_	-	2,294	_	35	_	29	-	_	-
Net change in plan fiduciary net position	\$ 1,126,950	\$ 264,974	\$	134,405	\$ 233,810	\$	136,478	\$ (9,981)	\$	328,468	\$	119,932	\$ -	\$	-
Plan fiduciary net position - beginning	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)	\$ 4,609,372	\$ 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)	\$ 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	12.22%	9.25%		9.60%	9.80%		9.42%	8.32%		10.46%		9.88%	N/A		N/A
Covered payroll	\$ 2,280,309	\$ 2,348,074	\$	2,098,591	\$ 1,963,972	\$	1,828,610	\$ 1,676,156	\$	1,661,650	\$	1,660,565	N/A		N/A
Employer's net pension liability as a percentage of covered payroll	1452.39%	1455.36%		1443.78%	1444.78%		1517.28%	1788.65%		1405.97%		1326.94%	N/A		N/A
Expected average remaining service years of all participants	5.00	7.00		6.00	6.45		6.19	6.10		5.97		N/A	N/A		N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2021.

Changes of assumptions: The discount rate changed from 3.33% to 2.95%. Changes were made to salary scale assumptions, pay spiking assumptions, inflation, cost-of-living increases, mortality rates, retirement rates, termination rates, disability rates, marital status, and non-spouse beneficiary loads.

*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

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 2,536,034	\$ 2,330,590	\$ 2,406,663	\$ 2,155,867	\$ 2,018,460	\$ 1,860,008	\$ 1,390,926	\$ 1,348,276	\$ 1,284,240	\$-
Contributions in relation to the actuarially determined contribution										
Employer provided	770,968	483,979	458,206	500,499	383,643	358,545	416,670	313,167	292,679	-
State provided	506,695	447,012	399,822	389,524	385,377	424,873	614,355	350,364	424,283	-
Contribution deficiency (excess)	\$ 1,258,371	\$ 1,399,599	\$ 1,548,635	\$ 1,265,844	\$ 1,249,440	\$ 1,076,590	\$ 359,901	\$ 684,745	\$ 567,278	\$-
Covered payroll	\$ 2,280,309	\$ 2,348,074	\$ 2,098,591	\$ 1,963,972	\$ 1,828,610	\$ 1,676,156	\$ 1,661,650	\$ 1,660,565	\$ 1,645,032	N/A
Contributions as a percentage of covered employee payroll	56.03%	39.65%	40.89%	45.32%	42.05%	46.74%	62.05%	39.96%	43.58%	N/A

Notes to Schedule

Valuation date:

Actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. Actuarial valuations are performed every year.

Methods and assumptions used to determine co	ntribution rates:
Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	30.5 years
Asset valuation method	Market Value
Inflation	2.75 percent
Salary increases	Rates vary by years of service
Investment rate of return	4.50%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014

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	betw and A on	Differences veen Projected Actual Earnings Pension Plan nvestments	Recognition Period (Years)	2017	2018	2019	2020	2021	20	022	2023	2024	2025
2017	\$	(46,579)	5	\$ (9,316)	(9,316)	(9,316)	(9,316)	(9,315)					
2018		(50,410)	5		\$ (10,082)	(10,082)	(10,082)	(10,082)		(10,082)			
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)	(15,351)	
2021		(637,962)	5					\$ (127,592)	(127,592)	(127,592)	(127,592)	(127,59
let increa	se (dec	rease) in pension	expense					\$ (157,398)	\$ (148,083)	\$ (138,003)	\$ (142,943)	\$ (127,59

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	Investment Earnings Less than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	0	Deferred outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2017	\$-	\$ 46,579	\$ 46,579	\$	-	\$ -
2018	-	50,410	40,328		-	10,082
2019	24,698	-	14,820		9,878	-
2020	-	76,747	30,698		-	46,049
2021	-	637,962	127,592		-	510,370
				\$	9,878	\$ 566,501

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.

B

	Differences						Increase	e (Decrease) in F	Pension Expense	Arising from t	the Recos	gnition of	Differences be	etween Expected	l and Actual Exp	erience				
Year	between Expected and Actual Experience	Recognition Period (Years)	Prior	2012	2013	2014	2015	2016	2017	2018	20	19	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	-	-															-	-	-	-
2012	-	-																		
2013		-																		
2014	-	-																		
2015	(551,459)	5.965437					\$ (92,442)	(92,442)	(92,442)	(92,442)	(9	2,442)	(89,249)							
2016	(1,122,758)	6.098031						\$ (184,118)	(184,118)	(184,118)	(18	4,118)	(184,118)	(184,118)	(18,050)					
2017	(114,902)	6.188496							\$ (18,567)	(18,567)	(1	8,567)	(18,567)	(18,567)	(18,567)	(3,500)				
2018	(326,827)	6.447419								\$ (50,691)	(5	0,691)	(50,691)	(50,691)	(50,691)	(50,691)	(22,681)			
2019	465,074	6.000000									\$ 7	7,512	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)		
Net increas	e (decrease) in pen	sion expense												\$ (330,707)	\$ (164,639)	\$ (131,522)	\$ (100,010)	\$ (154,844)	\$ 67,081	\$ -

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

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)		ces at 0, 2021 Deferred Inflows of Resources (b) - (c)
Prior	s -	\$ -	s -	s -	s -
2012	Ψ - -	÷ -	•	φ -	÷ .
2012		-			
2014	-	-			
2015		551,459	551,459		
2016	-	1.122.758	1.104.708		18.050
2017		114.902	92.835		22.067
2018	-	326.827	202.764		124.063
2019	465.074		232.536	232,538	-
2020	469,555	-	134.158	335.397	
2021	-	1,109,611	221,922	-	887,689
		, , .		\$ 567,935	\$ 1,051,869

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 plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

								Increa	se (Decrease) in P	ension Expens	e Arising from t	he Effects of Ch	anges of Assum	nptions					
	Changes of	Recognition Period																	
Year	Assumptions	(Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	ş -	-																	-
2012	-	-																	
2013	-	-																	
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)		
Net increas	e (decrease) in pen	sion expense											\$ 712,006	\$ (291,781)	\$ 52,954	\$ 181,788	\$ 181,347	\$ 291,663	\$-

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

					ices at 0, 2021
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	s -	\$-	\$-	\$-	\$-
2012	-		-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	1,290,559	-	1,290,559	-	-
2016	6,786,401	-	6,677,304	109,097	-
2017	-	3,460,883	2,796,225	-	664,658
2018	-	273,301	169,556	-	103,745
2019	116,447	-	58,224	58,223	-
2020	2,041,623	-	583,320	1,458,303	-
2021	-	551,561	110,312	-	441,249
				\$ 1.625.623	\$ 1.209.652

B



Projection of Pension Plan's Fiduciary Net Position

		Gro	oss Normal C	ost	_	Emp	oloye	e Contrib	ution	IS		Emp	er Normal C	Cos	st		_		penses	_			Emp		r Contribut	ions	s	_	Prem		x Alloc	ation
			(BOY)					(BOY)			-		(BOY)					((MOY)						(MOY)					(MC	DY)	
Fiscal Year	Curren Member		Future Members	Total		Current Members		Future Members		Total		Current lembers	Future lembers		Total		irrent mbers		Future embers		Total		Current Members		Future lembers		Total		urrent embers	Fut Mem		Total
2021	\$ 976,8	23	\$-	\$ 976,823	\$	183,249	\$	-	\$	183,249	\$	793,574	\$ -	\$	793,574	\$	2,460	\$	-	\$	2,460	\$	502,878	\$	-	\$	502,878	\$	506,695	\$	-	\$ 506,695
2022	\$ 892,9	19	\$ 123,137	\$ 1,016,056	\$	167,131	\$	26,368	\$	193,499	\$	725,788	\$ 96,769	\$	822,557	\$	2,404	\$	118	3\$	2,522	\$	439,157	\$	98,922	\$	538,079	\$	477,883	\$	-	\$ 477,883
2023	\$ 819,5	23	\$ 248,848	\$ 1,068,371	\$	152,875	\$	52,961	\$	205,836	\$	666,648	\$ 195,887	\$	862,535	\$	2,374	\$	241	1\$	2,615	\$	375,498	\$	200,247	\$	575,745	\$	481,282	\$	-	\$ 481,282
2024	\$ 754,7	46	\$ 366,476	\$ 1,121,222	\$	140,548	\$	77,715	\$	218,263	\$	614,198	\$ 288,761	\$	902,959	\$	2,341	\$	370) \$	2,711	\$	320,844	\$	295,203	\$	616,047	\$	501,432	\$	-	\$ 501,432
2025	\$ 699,5	88	\$ 482,801	\$ 1,182,389	\$	129,977	\$	102,029	\$	232,006	\$	569,611	\$ 380,772	\$	950,383	\$	2,336	\$	474	1\$	2,810	\$	269,917	\$	389,253	\$	659,170	\$	512,694	\$	-	\$ 512,694
2026	\$ 656,8	88	\$ 590,218	\$ 1,247,106	\$	121,499	\$	124,391	\$	245,890	\$	535,389	\$ 465,827	\$	1,001,216	\$	2,297	\$	583	3\$	2,880	\$	229,106	\$	476,206	\$	705,312	\$	524,237	\$	-	\$ 524,237
2027	\$ 627,1	21	\$ 691,092	\$ 1,318,213	\$	114,964	\$	145,457	\$	260,421	\$	512,157	\$ 545,635	\$	1,057,792	\$	2,288	\$	664	4 \$	2,952	\$	196,911	\$	557,773	\$	754,684	\$	537,110	\$	-	\$ 537,110
2028	\$ 596,7	68	\$ 783,717	\$ 1,380,485	\$	108,583	\$	164,891	\$	273,474	\$	488,185	\$ 618,826	\$	1,107,011	\$	2,277	\$	749	9\$	3,026	\$	174,924	\$	632,588	\$	807,512	\$	552,841	\$	-	\$ 552,841
2029	\$ 550,8	59	\$ 880,417	\$ 1,431,276	\$	100,514	\$	185,191	\$	285,705	\$	450,345	\$ 695,226	\$	1,145,571	\$	2,299	\$	803	3\$	3,102	\$	153,389	\$	710,649	\$	864,038	\$	567,580	\$	-	\$ 567,580
2030	\$ 507,5			\$ 1,501,815	\$	93,071	\$	209,020	\$	302,091	\$	414,460	\$ 785,264	\$	1,199,724	\$	2,285		930		3,215	\$	121,814	\$	802,707	\$	924,521		,	\$	-	\$ 584,373
2031	\$ 480,8	96	\$ 1,098,228	\$ 1,579,124	\$	87,961	\$	230,721	\$	318,682	\$	392,935	\$ 867,507	\$	1,260,442	\$	2,306	\$	1,026	5\$	3,332	\$	102,461	\$	886,776	\$	989,237	\$	597,653	\$	-	\$ 597,653
2032	\$ 458,3	26	\$ 1,195,266	\$ 1,653,592	\$	83,336	\$	250,929	\$	334,265	\$	374,990	\$ 944,337	\$	1,319,327	\$	2,289	\$	1,126		3,415	\$	93,163	\$	965,321	•	1,058,484	\$	611,266	\$	-	\$ 611,266
2033	\$ 427,5			\$ 1,722,032	\$	77,360	\$	271,365	\$	348,725	\$	350,206			1,373,307	\$	2,308		1,192		3,500	\$	86,770				1,132,578		/	\$	-	\$ 626,860
2034	\$ 388,4		\$ 1,400,532	\$ 1,789,019	\$	70,127	\$	292,976	\$	363,103	\$	318,360	\$ 1,107,556	\$	1,425,916	\$	2,287	\$	1,339	9\$	3,626	\$	79,672	\$ '	1,132,186	•	1,211,858		/	\$	-	\$ 645,581
2035	\$ 349,0	40		\$ 1,863,529	\$	63,091	\$	316,081	\$	379,172	\$	285,949			1,484,357	\$	2,344		1,413		3,757	\$	71,666		1,225,022		1,296,688		,	\$	-	\$ 663,030
2036	\$ 315,5		• • • • • • •	\$ 1,948,728	\$	57,218	\$	340,164	\$	397,382	\$	258,303			1,551,346	\$	2,320		1,572	•	3,892	\$	65,650			•	1,387,456			\$	-	\$ 699,520
2037	\$ 279,4			\$ 2,030,584	\$	50,828	\$	363,682	\$	414,510	\$	228,580		\$	1,616,074	\$	2,378		1,611		3,989	\$	66,296				1,484,578	\$	723,283	\$	-	\$ 723,283
2038	\$ 249,2		\$ 1,885,893	\$ 2,135,165	\$	45,359	\$	390,422	\$	435,781	\$	203,913		\$	1,699,384	\$	2,350		1,782		4,132	\$	59,797	\$	1,528,701	\$	1,588,498		739,914	\$	-	\$ 739,914
2039	\$ 233,4		\$ 2,006,309	\$ 2,239,798	\$	42,119	\$	414,432	\$	456,551	\$	191,370			1,783,247	\$	2,409		1,870		4,279	\$	72,471			\$	1,699,693		775,119	\$	-	\$ 775,119
2040	\$ 205,6		• • • • • • • •		\$	36,726	\$	436,501	\$	473,227	\$	168,878	1 /		1,852,465	\$	2,423		1,963		4,386	\$	97,718	•	1,720,954	•	1,818,672	•	792,992		-	\$ 792,992
2041	\$ 159,5			\$ 2,415,970	\$	28,505	\$	462,452	\$	490,957	\$	131,038			1,925,013	\$	2,437		2,105		4,542	\$	112,174				1,945,979		811,312		-	\$ 811,312
2042	\$ 116,6		\$ 2,395,498	\$ 2,512,186	\$	21,021	\$	489,267	\$	510,288	\$	95,667			2,001,898	\$	2,498		2,205		4,703	\$	133,676	•		•	2,082,198	•		\$	-	\$ 830,091
2043	\$ 87,4		\$ 2,520,990	\$ 2,608,436	\$	15,863	\$	514,252		530,115	\$	71,583			2,078,321	\$	2,462		2,456		4,918	\$	176,559	•		•	2,227,952		- , -	\$	-	\$ 872,781
2044	\$ 64,3			\$ 2,687,931	\$	11,832	\$	535,644	\$	547,476	\$	52,495			2,140,455	\$	2,524		2,567	•	5,091	\$	249,475				2,383,909	•	/	\$	-	\$ 893,054
2045	\$ 48,6		• • • • • •	\$ 2,789,426	\$	9,065	\$	560,127	\$	569,192	\$	39,546	,,		2,220,234	\$	2,535		2,734	•	5,269	\$	321,504	•	, ., .	\$	2,550,783			\$	-	\$ 922,895
2046	\$ 37,5		\$ 2,846,455		\$	7,168	\$	582,223	\$	589,391	\$	30,368			2,294,600	\$	2,545		2,908		5,453	\$	414,584		2,314,754		2,729,338	•	983,162		-	\$ 983,162
2047	\$ 29,2		\$ 2,957,866	\$ 2,987,117	\$	5,650	\$	605,264	\$	610,914	\$	23,601	1		2,376,203	\$	2,500		3,089		5,589	\$	515,228	•	, , .	\$	2,920,392		,020,411		-	\$ 1,020,411
2048	\$ 22,5			\$ 3,102,477	\$	4,416	\$	630,355		634,771	\$	18,134	2,449,572			\$	2,563		3,221		5,784	\$	620,514				3,124,819		,079,783		-	\$ 1,079,783
2049	\$ 16,6		,,	\$ 3,217,557	\$	3,288	\$	655,090		658,378	\$	13,351	1 1		2,559,179	\$	2,570		3,415		5,985	\$	740,777	•		•	3,343,556		,109,822		-	\$ 1,109,822
2050	\$ 10,2			\$ 3,327,436	\$	1,986	\$	678,397	\$	680,383	\$	8,227			2,647,053	\$	2,517		3,675		6,192	\$					3,577,605		,501,449		-	\$ 1,501,449
2051	\$ 5,2			\$ 3,446,671	\$	976		703,248		704,224	\$	4,250			2,742,447	\$	2,520		3,886		6,406	\$			2,799,664		3,828,037		,547,037		-	\$ 1,547,037
2052	\$ 3,0			\$ 3,570,472	\$	562	\$	728,806	\$	729,368	\$	2,527			2,841,104	\$	2,522		4,044	•	6,566	\$, ,			\$	4,096,000		,617,177		-	\$ 1,617,177
2053	\$ 1,7		, . ,	\$ 3,702,823	\$	319	•	755,782		756,101	\$,			2,946,722	\$	2,522		4,270		6,792	\$	/- / -		- / - /	•	4,382,720		,667,385		-	\$ 1,667,385
2054	• /-			\$ 3,837,181	\$	176		783,042		783,218	\$	830			3,053,963	\$	2,520		4,506		7,026	\$					4,689,510		,765,887		-	\$ 3,765,887
2055			\$ 3,973,567	\$ 3,974,135	\$	96	\$	810,909	\$	811,005	\$	472			3,163,130	\$	2,517		4,685		7,202	\$, ,		- , ,	\$	5,017,776		, ,	\$	-	\$ 4,290,788
2056				\$ 4,115,129	\$ \$	48	\$	839,736		839,784	\$ \$		3,275,101			\$ \$	2,512		4,937		7,449	\$				\$	5,369,020		,395,935		-	\$ 4,395,935
2057				\$ 4,261,057	\$ \$	25	\$ \$	869,599 900.063	\$ \$	869,624 900.076	\$ \$	127 68			3,391,433	ş s	2,505 2,496		5,130 5,400		7,635 7.896	\$, ,		- , - , -	•	5,744,851 6.146.991		,293,151		-	\$ 5,293,151 \$ 5,682,942
2058	+			\$ 4,410,252 \$ 4.569.623	ծ Տ	13		,			ծ Տ				3,510,176	Ţ	,		5,400		7,896	\$			3,589,322		- / - /		,682,942		-	
2059	ծ Տ		• • • • • • • • •		ծ Տ	6	\$ \$	932,462	\$ \$	932,468	ծ Տ	30			3,637,155	\$ \$	2,485		5,608		8,093	\$ \$,,		- , - , -	\$	6,577,280			\$ ¢	-	\$ 6,454,004 \$ 7,722,005
2060	+		\$ 4,735,567	\$ 4,735,567	•	-	-	966,098	-	966,098	-	-			3,769,469		2,472		- /	•	- /						7,037,690			\$	-	\$ 7,723,005
2061	\$ -		ъ 4,909,250	\$ 4,909,250	\$	-	ъ	1,001,155	\$	1,001,155	\$	-	\$ 3,908,095	Ъ	3,908,095	\$	2,457	\$	6,121	1 \$	8,578	\$	3,533,929	\$ 3	3,996,399	\$	7,530,328	\$ 7	,913,171	ф	-	\$ 7,913,171



Projection of Pension Plan's Fiduciary Net Position

		Actu	arial Accrued Liability (I	SOY)						CI	osed	Group Asset Projectio	on		
Fiscal Year	Cu	rrent Members	Future Members		Total	Fi	duciary 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
2021	\$	29,372,366	\$-	\$	29,372,366	\$	3,482,422	11.86%	\$	187,103	\$	1,009,573	\$ 1,105,400	\$ 2,460	\$ 149,871
2022	\$	30,510,384	\$-	\$	30,510,384	\$	3,721,109	12.20%	\$	170,646	\$	917,040	\$ 1,197,195	\$ 2,404	\$ 155,794
2023	\$	31,515,573	\$ 126,754	\$	31,642,327	\$	3,764,990	11.95%	\$	156,090	\$	856,780	\$ 1,270,337	\$ 2,374	\$ 154,548
2024	\$	32,412,287	\$ 385,313	\$	32,797,600	\$	3,659,697	11.29%	\$	143,504	\$	822,276	\$ 1,327,683	\$ 2,341	\$ 147,877
2025	\$	33,221,029	\$ 769,871	\$	33,990,900	\$	3,443,329	10.36%	\$	132,710	\$	782,611	\$ 1,369,617	\$ 2,336	\$ 136,739
2026	\$	33,963,825	\$ 1,282,065	\$	35,245,890	\$	3,123,436	9.20%	\$	124,054	\$	753,343	\$ 1,396,062	\$ 2,297	\$ 121,791
2027	\$	34,666,674	\$ 1,916,379	\$	36,583,053	\$	2,724,265	7.86%	\$	117,382	\$	734,021	\$ 1,410,940	\$ 2,288	\$ 103,967
2028	\$	35,353,171	\$ 2,671,317	\$	38,024,488	\$	2,266,407	6.41%	\$	110,866	\$	727,765	\$ 1,423,979	\$ 2,277	\$ 83,965
2029	\$	36,023,888	\$ 3,540,443	\$	39,564,331	\$	1,762,747	4.89%	\$	102,628	\$	720,969	\$ 1,459,792	\$ 2,299	\$ 61,490
2030	\$	36,638,684	\$ 4,526,420	\$	41,165,104	\$	1,185,743	3.24%	\$	95,028	\$	706,187	\$ 1,492,232	\$ 2,285	\$ 35,815
2031	\$	37,201,317	\$ 5,649,780	\$	42,851,097	\$	528,256	1.42%	\$	89,811	\$	700,114	\$ 1,503,420	\$ 2,306	\$ 7,398
2032	\$	37,748,672	\$ 6,908,963	\$	44,657,635	\$	-	0.00%	\$	85,088	\$	704,429	\$ 1,527,000	\$ 2,289	\$ -
2033	\$	38,271,684	\$ 8,298,093	\$	46,569,777	\$	-	0.00%	\$	78,987	\$	713,630	\$ 1,562,496	\$ 2,308	\$-
2034	\$	38,748,615	\$ 9,815,967	\$	48,564,582	\$		0.00%	\$	71,602	\$	725,253	\$ 1,613,571	\$ 2,287	s -
2035	\$	39,152,926	\$ 11,465,186	\$	50,618,112	\$		0.00%	\$	64,418	\$	734,696	\$ 1,665,410	\$ 2,344	\$ -
2036	\$	39,480,368			52,734,900	\$		0.00%	\$	58,421	\$	765,170			\$ -
2037	\$	39,746,446	\$ 15,197,142	s	54,943,588	\$		0.00%	s	51,897	\$	789,579	\$ 1,753,612	\$ 2,378	\$ -
2038	\$	39,936,464			57,225,645	\$	-	0.00%	s	46,313		799,711			
2039	\$	40,073,544			59,634,250	\$	-	0.00%	s	43,005		847,590			
2040	ŝ	40,190,667			62,204,781	\$	-	0.00%	ŝ	37,498		890.710			\$ -
2041	ŝ	40,252,362			64,884,275	\$	-	0.00%	ŝ	29,104		923,486			•
2042	\$	40,213,449			67,633,980	\$		0.00%	s	21,463		963,767			\$ -
2042	\$	40,081,829			70,455,734	\$		0.00%	s	16,197		1,049,340			
2044	\$ \$	39,887,601			73,354,414	\$		0.00%	\$	12,081		1,142,529			•
2045	\$	39,644,127			76,295,926	\$		0.00%	s	9,256		1,244,399			\$ -
2046	\$	39.371.732			79,330,484	\$	-	0.00%	s	7.319		1,397,746			
2040	\$ \$	39,080,862			82,450,085	\$		0.00%	\$	5,769	•	1,535,639			•
2047	Ψ \$	38,778,095			85,658,551	φ \$	-	0.00%	ş S	4,509		1,700,297			
2040	s S	38,469,460			88,978,278	φ \$		0.00%	s s	3,357		1,850,599			
2049	э S	38,157,310			92,410,817	э \$		0.00%	φ S	2,028		2,381,061			
2050	э \$	37,838,457			95,925,401	э \$	- 479,447	1.27%	э S	2,028		2,581,001			
2052	э S	37,523,094			99,532,991	э \$	1,198,891	3.20%	э S	574		2,810,864			
2052	э S	37,221,315			103,251,865	э \$	2,218,098	5.96%	э S	326	•	3,038,652			
2053	э \$	36,938,077				э \$		9.60%	э S	180				•	•
	ծ Տ	36,677,501			107,101,926	ծ Տ	3,545,664	9.60% 19.93%	э \$	98		5,333,554 6.074,714			
2055					111,086,662	•	7,308,185				•	- / - /			• • • • •
2056	\$	36,443,353			115,208,453	\$	12,025,237	33.00%	\$	49	•	6,416,045			
2057	\$	36,239,012			119,473,822	\$	17,331,275	47.82%	\$	26		7,570,251			
2058	\$	36,067,794			123,889,312	\$	24,083,233	66.77%	\$	13		8,240,611			
2059	\$	35,932,764			128,454,685	\$	31,850,142	88.64%	\$		\$	9,312,066			
2060	\$	35,836,804			133,182,369	\$	41,085,990	114.65%	\$	-	\$	10,906,061			
2061	\$	35,782,684	\$ 102,303,826	\$	138,086,510	\$	52,387,840	146.41%	\$	-	\$	11,447,100	\$ 1,498,818	\$ 2,457	\$ 2,435,633



Projection of Pension Plan's Fiduciary Net Position

-iscal Year	"Fun	ded" Portion of BP	"Unfu	nded" Portion of BP	PV o	f "Funded" BP	PV of	"Unfunded" BP	P١	/ of BP Using a Single DR
2021	\$	1,105,400	\$	-	\$	1,082,633	\$	-	\$	1,089,462
2022	\$	1,197,195	\$	-	\$	1,124,737	\$	-	\$	1,146,15
2023	\$	1,270,337	\$	-	\$	1,144,798	\$	-	\$	1,181,36
2024	\$	1,327,683	\$	-	\$	1,147,699	\$	-	\$	1,199,34
2025	\$	1,369,617	\$	-	\$	1,135,682	\$	-	\$	1,201,80
2026	\$	1,396,062	\$	-	\$	1,110,418	\$	-	\$	1,189,94
2027	\$	1,410,940	\$	-	\$	1,076,500	\$	-	\$	1,168,19
2028	\$	1,423,979	\$	-	\$	1,042,157	\$	-	\$	1,145,23
2029	\$	1,459,792	\$	-	\$	1,024,813	\$	-	\$	1,140,43
2030	\$	-	\$	1,492,232	\$	-	\$	1,245,581	\$	1,132,39
2031	\$	-	\$	1,503,420	\$	-	\$	1,231,279	\$	1,108,22
2032	\$	-	\$	1,527,000	\$	-	\$	1,227,032	\$	1,093,38
2033	\$	-	\$	1,562,496	\$	-	\$	1,231,902	\$	1,086,77
2034	\$	-	\$	1,613,571	\$	-	\$	1,248,205	\$	1,090,16
2035	\$	-	\$	1,665,410	\$	-	\$	1,264,037	\$	1,092,98
2036	\$	-	\$	1,704,916	\$	-	\$	1,269,644	\$	1,086,87
2037	\$	-	\$	1,753,612	\$	-	\$	1,281,307	\$	1,085,91
2038	\$	-	\$	1,782,600	\$	-	\$	1,277,951	\$	1,072,26
2039	\$	-	\$	1,791,737	\$	-	\$	1,260,303	\$	1,046,90
2040	\$	-	\$	1,822,427	\$	-	\$	1,257,742	\$	1,034,35
2041	\$	-	\$	1,876,501	\$	-	\$	1,270,664	\$	1,034,55
2042	\$	-	\$	1,921,923	\$	-	\$	1,276,905	\$	1,029,26
2043	\$	-	\$	1,947,906	\$	-	\$	1,269,788	\$	1,013,31
2044	\$	-	\$	1,964,448	\$	-	\$	1,256,447	\$	992,66
2045	\$	-	\$	1,966,592	\$	-	\$	1,234,123	\$	965,29
2046	\$	-	\$	1,962,040	\$	-	\$	1,208,072	\$	935,49
2047	\$	-	\$	1,953,126	\$	-	\$	1,179,929	\$	904,58
2048	\$	-	\$	1,939,428	\$	-	\$	1,149,581	\$	872,52
2049	\$	-	\$	1,923,989	\$	-	\$	1,118,946	\$	840,79
2050	\$	-	\$	1,911,000	\$	-	\$	1,090,455	\$	811,21
2051	\$	-	\$	1,889,217	\$	-	\$	1,057,717	\$	779,00
2052	\$	-	\$	1,860,604	\$	-	\$	1,022,074	\$	745,24
2053	\$	1,828,560	\$	-	\$	472,756	\$	-	\$	711,44
2054	\$	1,793,772	\$	-	\$	444,856	\$	-	\$	677,93
2055	\$	1,756,595	\$	-	\$	417,876	\$	-	\$	644,87
2056	\$	1,717,373	\$	-	\$	391,890	\$	-	\$	612,42
2057	\$	1,676,284	\$	-	\$	366,920	\$	-	\$	580,66
2058	\$	1,633,642	\$	-	\$	343,008	\$	-	\$	549,68
2059	\$	1,589,710	\$	-	\$	320,177	\$	-	\$	519,59
2060	φ \$	1,544,701	\$	-	\$	298,428	φ \$	-	\$	490,42
2000	Ψ \$	1,498,818	φ \$		Ψ \$	230,420	Ψ \$		\$	462,23