

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



Submitted by:

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November 29, 2023

Mrs. Kimberly Karakiozis Finance Director City of Clarksburg 222 W. Main Street Clarksburg, WV 26301 Retiree Adam Pulice
Pension Board Secretary
City of Clarksburg
Firemen's Pension and Relief Fund

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

Dear Kimberly,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Clarksburg Firemen'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 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 assume that the members and the City will continue to make all required contributions in accordance with the City's funding policy.

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.

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.

Mrs. Kimberly Karakiozis November 29, 2023 Page 2

Methodology, Reliance and Certification (cont.)

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.

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 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.



Mrs. Kimberly Karakiozis November 29, 2023 Page 3

Methodology, Reliance and Certification (cont.)

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,

James Ritchie, ASA, EA, FCA, MAAA

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Jordan McClane, FSA, EA, FCA, MAAA

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Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date



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	\$ 34,344,045
Plan fiduciary net position	(16,316,188)
Employer's net pension liability	\$ 18,027,857
Plan fiduciary net position as a percentage of the total pension liability	47.51%

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) 6.00% Single discount rate (EOY) 6.25%

Investment rate of return (BOY) 6.00%, net of pension plan investment expense, including inflation Investment rate of return (EOY) 6.25%, 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
Year assets are expected to be depleted
N/A

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

		Current	
	1% Decrease 5.25%	Discount Rate 6.25%	1% Increase 7.25%
Employer's net pension liability	\$ 22,542,544	\$ 18,027,857	\$ 14,327,911

City of Clarksburg, West Virginia Firemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date



Changes in the Net Pension Liability

	lı Total Pension Liability (a)	ncrease (Decrease Plan Fiduciary Net Position (b)) Net Pension Liability (a) - (b)
Balances at 6/30/22	\$ 34,138,745	\$ 14,456,589	\$ 19,682,156
Changes for the year:			
Service cost	828,539		828,539
Interest	1,999,693		1,999,693
Changes of benefit terms	-		-
Differences between expected and actual experience	42,033		42,033
Changes of assumptions	(1,043,883)		(1,043,883)
Contributions - employer (including Premium Tax Allocation)		2,112,671	(2,112,671)
Contributions - member		214,769	(214,769)
Net investment income		1,160,741	(1,160,741)
Benefit payments, including refunds of member contributions	(1,621,082)	(1,621,082)	-
Administrative expense		(7,500)	7,500
Other			
Net Changes	205,300	1,859,599	(1,654,299)
Balances at 6/30/23	\$ 34,344,045	\$ 16,316,188	\$ 18,027,857
Return on Investments		7.8%	





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

Note	Description	Amount
Α	Service cost	\$ 828,539
В	Interest on the total pension liability	1,999,693
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	199,987
С	Changes of assumptions	(2,542,572)
Α	Employee contributions	(214,769)
D	Projected earnings on pension plan investments	(888,361)
С	Differences between expected and actual earnings on	122,061
	plan investments	
Α	Pension plan administrative expense	7,500
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ (487,922)

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

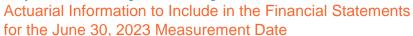
B Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 34,138,74	5 100%	6.00%	\$ 2,048,325
Service cost (End of Year)	828,539	9 0%	6.00%	-
Benefit payments, including refunds of employee contributions	(1,621,082	2) 50%	6.00%	(48,632)
Total interest on the total pension liability				\$ 1,999,693

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	F	Amount for Period	Portion of Period	Projected Rate of Return		rojected arnings
		(a)	(b)	(c)	(a)	x (b) x (c)
Beginning plan fiduciary net position	\$	14,456,589	100%	6.00%	\$	867,395
Employer contributions		2,112,671	50%	6.00%		63,380
Employee contributions		214,769	50%	6.00%		6,443
Benefit payments, including refunds of employee contributions		(1,621,082)	50%	6.00%		(48,632)
Administrative expense and other		(7,500)	50%	6.00%		(225)
Total Projected Earnings					\$	888,361





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:

	ed Outflows Resources	erred Inflows Resources
Differences between expected and actual experience	\$ 31,525	\$ 21,031
Changes of assumptions	-	1,500,464
Net difference between projected and actual earnings	619,235	
on pension plan investments		-
Total	\$ 650,760	\$ 1,521,495

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	\$ (853,054)
2025	(193,367)
2026	230,162
2027	(54,476)
2028	-
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date

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

B

Total pension liability	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Service cost	\$ 828,539	\$ 792,231	\$ 944,371	\$ 948,245	\$ 906,710	\$ 911,837	\$ 1,041,846	\$ 739,794	\$ 735,159	\$ 729,815
Interest	1,999,693	1,859,840	1,868,340	1,744,625	1,646,488	1,604,493	1,540,729	1,503,073	1,480,035	1,492,730
Changes of benefit terms	-	664,648	-	-	-	-	-	-	-	-
Differences between expected and actual experience	42,033	(63,093)	(198,743)	1,107,034	660,159	(1,021,000)	(1,006,489)	(511,633)	(837,150)	-
Changes of assumptions	(1,043,883)	(2,152,658)	(4,692,144)	-	-	-	(2,433,972)	4,020,701	-	-
Benefit payments, including refunds of member contributions	(1,621,082)	 (1,554,987)	(1,391,691)	(1,259,528)	(1,241,719)	(1,199,305)	(1,223,009)	(1,239,292)	(1,250,939)	(1,303,181
Net change in total pension liability	205,300	(454,019)	(3,469,867)	2,540,376	1,971,638	296,025	(2,080,895)	4,512,643	127,105	919,364
Total pension liability - beginning	34,138,745	34,592,764	38,062,631	35,522,255	33,550,617	33,254,592	35,335,487	30,822,844	30,695,739	29,776,375
Total pension liability - ending (a)	\$ 34,344,045	\$ 34,138,745	\$ 34,592,764	\$ 38,062,631	\$ 35,522,255	\$ 33,550,617	\$ 33,254,592	\$ 35,335,487	\$ 30,822,844	\$ 30,695,739
Plan fiduciary net position	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Contributions - employer (including Premium Tax Allocation)	\$ 2,112,671	\$ 2,433,357	\$ 2,399,993	\$ 2,298,344	\$ 2,034,183	\$ 2,029,582	\$ 1.790.929	\$ 1,361,271	\$ 1,288,742	\$ 1,210,474
Contributions - member	214,769	203,585	185,487	176,172	167,038	155,596	148,321	145,720	140,550	135,019
Net investment income	1,160,741	(1,810,353)	2,712,034	133,379	517,666	561,109	586,180	315,511	185,060	465,521
Benefit payments, including refunds of member contributions	(1,621,082)	(1,554,987)	(1,391,691)	(1,259,528)	(1,241,719)	(1,199,305)	(1,223,009)	(1,239,292)	(1,250,939)	(1,303,181
Administrative expense	(7,500)	(7,914)	(7,500)	(7,500)	-	(7,500)	(7,500)	(6,000)	(6,000)	(6,000
Other	-	-	-	-	(7,500)	-	-	-	-	
Net change in plan fiduciary net position	\$ 1,859,599	\$ (736,312)	\$ 3,898,323	\$ 1,340,867	\$ 1,469,668	\$ 1,539,482	\$ 1,294,921	\$ 577,210	\$ 357,413	\$ 501,833
Plan fiduciary net position - beginning	14,456,589	15,192,901	11,294,578	9,953,711	8,484,043	6,944,559	5,649,638	5,072,427	4,715,014	4,213,181
Plan fiduciary net position - ending (b)	\$ 16,316,188	\$ 14,456,589	\$ 15,192,901	\$ 11,294,578	\$ 9,953,711	\$ 8,484,043	\$ 6,944,559	\$ 5,649,637	\$ 5,072,427	\$ 4,715,014
Employer's net pension liability - ending (a)-(b)	\$ 18,027,857	\$ 19,682,156	\$ 19,399,863	\$ 26,768,053	\$ 25,568,544	\$ 25,066,574	\$ 26,310,033	\$ 29,685,850	\$ 25,750,417	\$ 25,980,725
Plan fiduciary net position as a percentage of the	47.51%	42.35%	43.92%	29.67%	28.02%	25.29%	20.88%	15.99%	16.46%	15 260
otal pension liability	47.51%	42.35%	43.92%	29.67%	28.02%	25.29%	20.88%	15.99%	16.46%	15.36%
Covered payroll	\$ 2,345,856	\$ 1,830,115	\$ 2,056,574	\$ 2,064,594	\$ 1,963,141	\$ 1,912,017	\$ 1,919,071	\$ 1,868,455	\$ 1,826,835	\$ 1,812,838
Employer's net pension liability as a percentage of covered payroll	768.50%	1075.46%	943.31%	1296.53%	1302.43%	1311.00%	1370.98%	1588.79%	1409.56%	1433.15%
										N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2023.

Changes of assumptions: The discount rate changed from 6.00% to 6.25%.

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Actuarially determined contribution	\$ 1,881,247	\$ 2,034,507	\$ 2,453,333	\$ 2,340,972	\$ 2,327,809	\$ 2,026,406	\$ 2,031,009	\$ 2,124,224	\$ 1,697,409	\$ 1,676,866
Contributions in relation to the actuarially determined contribution										
Employer provided	1,674,359	1,959,262	1,863,796	1,861,120	1,581,814	1,592,742	1,345,298	936,850	867,454	803,198
State provided	438,312	474,095	536,197	437,224	452,369	436,840	445,631	424,421	421,288	407,276
Contribution deficiency (excess)	\$ (231,424)	\$ (398,850)	\$ 53,340	\$ 42,628	\$ 293,626	\$ (3,176)	\$ 240,080	\$ 762,953	\$ 408,667	\$ 466,392
Covered payroll	\$ 2,345,856	\$ 1,830,115	\$ 2,056,574	\$ 2,064,594	\$ 1,963,141	\$ 1,912,017	\$ 1,919,071	\$ 1,868,455	\$ 1,826,835	\$ 1,812,838
Contributions as a percentage of covered employee payroll	90.06%	132.96%	116.70%	111.32%	103.62%	106.15%	93.32%	72.86%	70.55%	66.77%

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. 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 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 6.00%, 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

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date



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	betv and / on	Differences veen Projected Actual Earnings Pension Plan nvestments	Recognition Period (Years)	Increas 2019	e (De	crease) in Per	nsion	Expense Aris	sing f	rom the Recog	gnitio	on of Difference	es be	tween Project 2024	ed an	d Actual Eari	nings	on Plan Inves 2026	tment	s 2027
2019	\$	(69,664)	5	\$ (13,933)		(13,933)		(13,933)		(13,933)		(13,932)								
2020		394,494	5		\$	78,899		78,899		78,899		78,899		78,898						
2021		(2,117,648)	5				\$	(423,530)		(423,530)		(423,530)		(423,530)		(423,528)				
2022		2,675,499	5						\$	535,100		535,100		535,100		535,100		535,099		
2023		(272,380)	5								\$	(54,476)		(54,476)		(54,476)		(54,476)		(54,476)
Net increa	se (dec	crease) in pension	expense								\$	122,061	\$	135,992	\$	57,096	\$	480,623	\$	(54,476)

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)	nvestment Earnings reater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	C	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2019	\$ -	\$ 69,664	\$ 69,664	\$	-	\$
2020	394,494	-	315,596		78,898	-
2021	-	2,117,648	1,270,590		-	847,058
2022	2,675,499	-	1,070,200		1,605,299	-
2023	-	272,380	54,476		-	217,904
				\$	1,684,197	\$ 1,064,962

for the June 30, 2023 Measurement Date

B

Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33 a 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.

	Differences between Expected and Actual	Recognition Period					Increa	se (Decrease) in	Pension Exper	se Arising fror	n the Re	ecognition	of Differer	nces be	ween Expecte	d and i	Actual Exper	ience							
Year	Experience	(Years)	Prior	2014	2015	2016	2017	2018	2019	2020	- 1	2021	2022	:	2023		2024	2025		2026	2027	7	2028	The	reafter
Prior																									-
2014	-	-																							
2015	(837,150)	3.852277			\$ (217,313)	(217,313)	(217,313)	(185,211)																	
2016	(511,633)	4.009013				\$ (127,621)	(127,621)	(127,621)	(127,621)	(1,149)															
2017	(1,006,489)	3.958952					\$ (254,231)	(254,231)	(254,231)	(243,796)															
2018	(1,021,000)	3.782276						\$ (269,943)	(269,943)	(269,943)	(211,171)													
2019	660,159	4.000000							\$ 165,040	165,040		165,040	165,	039											
2020	1,107,034	4.000000								\$ 276,759		276,759	276,	759	276,757										
2021	(198,743)	3.000000									\$	(66,248)	(66,	248)	(66,247)										
2022	(63,093)	3.000000											\$ (21,	031)	(21,031)		(21,031)								
2023	42,033	4.000000													\$ 10,508		10,508	10,50	8	10,509					
Net increas	se (decrease) in pen	sion expense													\$ 199,987	\$	(10,523)	\$ 10,50	8 \$	10,509	\$		\$	- \$	-

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

						Balan June 3			
Year	Experience Losses (a)	E	xperience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Oi Re	Deferred utflows of esources (a) - (c)	Deferred Inflows of Resources (b) - (c)		
Prior	\$ -	\$		\$	\$		\$	-	
2014	-		-			-		-	
2015	-		837,150	837,150		-		-	
2016			511,633	511,633				-	
2017	-		1,006,489	1,006,489		-		-	
2018	-		1,021,000	1,021,000		-		-	
2019	660,159		-	660,159		-		-	
2020	1,107,034			1,107,034				-	
2021	-		198,743	198,743		-		-	
2022	-		63,093	42,062		-		21,031	
2023	42,033		-	10,508		31,525		-	
					\$	31,525	\$	21,031	



for the June 30, 2023 Measurement Date

B

Schedule of Changes of Assumptions

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.

				Increase (Decrease) in Pension Expense Arising from the Effects of Changes of Assumptions																
Year	Changes of Assumptions	Recognition Period (Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2024	2025	2026	2027	2028	Thereafter
Prior	\$ -	-																		-
2014																				
2015	-	3.852277																		
2016	4,020,701	4.009013				\$ 1,002,915	1,002,915	1,002,915	1,002,915	9,041										
2017	(2,433,972)	3.958952					\$ (614,802)	(614,802)	(614,802)	(589,566)										
2018	-	3.782276																		
2019	-	4.000000																		
2020	-	4.000000																		
2021	(4,692,144)	3.000000									\$ (1,564,048)	(1,564,048)	(1,564,048	3)						
2022	(2,152,658)	3.000000										\$ (717,553)	(717,553	3)	(717,552)					
2023	(1,043,883)	4.000000											\$ (260,971)	(260,971)	(260,971)	(260,970)			
Net increas	e (decrease) in per	nsion expense											\$ (2,542,572	2) \$	(978,523)	\$ (260,971)	\$ (260,970)	\$	\$	- \$.

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

						nces at 30, 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)	Out	eferred flows of sources i) - (c)			
Prior	\$ -	\$ -	\$ -	\$	-	\$	-	
2014		-			-		-	
2015		-			-		-	
2016	4,020,701	-	4,020,701		-		-	
2017		2,433,972	2,433,972		-		-	
2018		-			-		-	
2019		-			-		-	
2020		-			-		-	
2021		4,692,144	4,692,144		-		-	
2022		2,152,658	1,435,106		-	717,55	52	
2023		1,043,883	260,971		-	782,91	12	
				\$	-	\$ 1,500,46	54	