



June 23, 2023

Ms. Grisell Aedo, BBA, MPS
Retirement Director
City of Hialeah
501 Palm Avenue
Hialeah, Florida 33010-4719

Re: City of Hialeah Elected Officers Retirement System

Dear Grisell:

As requested, we are pleased to enclose ten (10) copies of the October 1, 2022 Chapter 112.664 Compliance Report for the City of Hialeah Elected Officers Retirement System (System).

As required, we will timely upload the required data to the State's online portal prior to the filing deadline.

We understand the following items must be posted on the System's website and must be posted on any website containing budget information relating to the City or actuarial or performance information relating to the System:

- this compliance report
- the most recent financial statement
- the most recent actuarial valuation report
- a link to the Division of Retirement Actuarial Summary Fact Sheet
http://www.dms.myflorida.com/workforce_operations/retirement/local_retirement_plans/local_retirement_section/actuarial_summary_fact_sheets
- for the previous five years - a side-by-side comparison of the System's assumed rate of return compared to the actual rate of return as well as the percentages of cash, equity, bond and alternative investments in the System portfolio
- the System's funded ratio as determined in the most recent actuarial valuation – 111.0% on a net market value of assets basis as of October 1, 2022

We appreciate the opportunity to work with the City Council on this important assignment.

If you should have any questions concerning the above, please do not hesitate to contact us.

Sincerest regards,
Gabriel, Roeder, Smith & Company

A handwritten signature in black ink that reads "Jennifer Borregard".

Jennifer M. Borregard, E.A.
Consultant and Actuary

Enclosures

cc: Ms. Ruth Rubi (w/ enclosure)

CITY OF HIALEAH ELECTED OFFICERS RETIREMENT SYSTEM

CHAPTER 112.664, F.S. COMPLIANCE REPORT

In Connection with the October 1, 2022 Funding Actuarial Valuation Report and the System's Financial Reporting for the Year Ended September 30, 2022





June 23, 2023

City Council
c/o Ms. Grisell Aedo, BBA, MPS
Retirement Director
City of Hialeah
501 Palm Avenue
Hialeah, Florida 33010-4719

Re: October 1, 2022 Chapter 112.664 Compliance Report

Dear City Council Members:

Gabriel, Roeder, Smith & Company (GRS) has been engaged by the City Council (Council) of the City of Hialeah Elected Officers Retirement System (System) to prepare a disclosure report to satisfy the requirements set forth in Chapter 112.664, F.S. and as further required pursuant to Chapter 60T-1.0035, F.A.C.

This report was prepared at the request of the Council and is intended for use by the Council and those designated or approved by the Council. This report may be provided to parties other than the Council only in its entirety and only with the permission of the Council.

The purpose of the report is to provide the required information specified in Chapter 112.664, F.S. and to supplement this information with additional exhibits. This report should not be relied on for any purpose other than the purpose described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: System 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 upon the System's funded status); and changes in System provisions or applicable law. The scope of this engagement does not include an analysis of the potential range of such measurements.

This report was based upon information furnished by the Council and City concerning System benefits, System provisions and System members as used in the corresponding Actuarial Valuation Reports for the Valuation Dates indicated. Financial information was provided by the Council and City as of September 30, 2022. We reviewed the information provided for internal and year-to-year consistency, but did not audit the information provided to us. The System is responsible for the accuracy of the information provided to us.

Except where specific assumptions are required by Chapter 112.664, F.S, this report was prepared using actuarial assumptions adopted by the Council as described in Section C. The Council's assumptions are based upon past and expected future System experience and represent an estimate of future System experience. The mortality assumptions are prescribed by statute.

If all actuarial assumptions are met and if all current and future minimum required contributions are paid System assets will be sufficient to pay all System benefits. Future contributions are expected to remain relatively stable. System minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll along with a level dollar amortization payment using an initial amortization period of 15 years.

The System's funded ratio as of October 1, 2022 is 111.0% defined as the ratio of the net market value of System assets to the actuarial accrued liability.

The System's funded ratio and the GASB Net Pension Liability may not be appropriate for assessing the sufficiency of System assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions.

The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the System sponsor.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and presents the actuarial position of the System as of the valuation date as required by statute. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

With respect to the reporting standards for defined benefit retirement systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were prepared and completed by us or under our direct supervision and we acknowledge responsibility for the results.



To the best of our knowledge and belief, the results are complete and accurate, and in our opinion, meet the requirement of Section 112.664(1), F.S., and Section 60T-1.0035, F.A.C.

Sincerely,

GABRIEL, ROEDER, SMITH AND COMPANY

By *Michelle Jones*

Shelly L. Jones, M.A.A.A.
Enrolled Actuary No. 23-08646
Consultant & Actuary

By *Jennifer Borregard*

Jennifer M. Borregard, M.A.A.A.
Enrolled Actuary No. 23-07624
Consultant & Actuary

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SECTION A

CHAPTER 112.664, F.S. RESULTS

Net Pension Liability
Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68
and Using Assumptions Required Under 112.664(1)(a), F.S.

Measurement Date	<u>September 30, 2022</u>
A. <u>Total Pension Liability (TPL)</u>	
Service Cost	\$ 73,200
Interest	605,462
Benefit Changes	0
Difference Between Actual and Expected Experience	514,843
Assumption Changes	(39,630)
Benefit Payments	(809,281)
Other	0
Net Change in Total Pension Liability	<u>\$ 344,594</u>
Total Pension Liability (TPL) - (beginning of year)	<u>9,947,266</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 10,291,860</u>
B. <u>System Fiduciary Net Position</u>	
Contributions - Employer	\$ 129,503
Contributions - Member	10,635
Net Investment Income	(2,131,839)
Benefit Payments	(809,281)
Administrative Expenses	(56,475)
Other	0
Net Change in System Fiduciary Net Position	<u>\$ (2,857,457)</u>
System Fiduciary Net Position - (beginning of year)	<u>15,470,074</u>
System Fiduciary Net Position - (end of year)	<u>\$ 12,612,617</u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	<u>\$ (2,320,757)</u>
Valuation Date	October 1, 2021

Certain Key Assumptions

Investment Return Assumption 6.0%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Net Pension Liability
Using Assumptions Required Under 112.664(1)(b), F.S.

Measurement Date	<u>September 30, 2022</u>
A. <u>Total Pension Liability (TPL)</u>	
Service Cost	\$ 121,630
Interest	507,489
Benefit Changes	0
Difference Between Actual and Expected Experience	583,019
Assumption Changes	(54,318)
Benefit Payments	(809,281)
Other	0
Net Change in Total Pension Liability	<u>\$ 348,539</u>
Total Pension Liability (TPL) - (beginning of year)	<u>12,441,530</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 12,790,069</u>
B. <u>System Fiduciary Net Position</u>	
Contributions - Employer	\$ 129,503
Contributions - Member	10,635
Net Investment Income	(2,131,839)
Benefit Payments	(809,281)
Administrative Expenses	(56,475)
Other	0
Net Change in System Fiduciary Net Position	<u>\$ (2,857,457)</u>
System Fiduciary Net Position - (beginning of year)	<u>15,470,074</u>
System Fiduciary Net Position - (end of year)	<u>\$ 12,612,617</u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	\$ 177,452
Valuation Date	October 1, 2021

Certain Key Assumptions

Investment Return Assumption 4.0%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Asset and Benefit Payment Projection
Not Reflecting Any Future Contributions
Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68
and Using Assumptions Required Under 112.664(1)(a), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2023	\$ 11,394,283	\$ 656,102	\$ 855,447	\$ 11,194,938
2024	11,194,938	644,602	841,144	10,998,396
2025	10,998,396	632,956	836,615	10,794,737
2026	10,794,737	620,612	840,475	10,574,874
2027	10,574,874	608,305	813,012	10,370,167
2028	10,370,167	596,786	789,315	10,177,638
2029	10,177,638	585,967	766,564	9,997,041
2030	9,997,041	575,909	742,404	9,830,546
2031	9,830,546	566,723	717,459	9,679,810
2032	9,679,810	558,182	701,849	9,536,143
2033	9,536,143	550,075	685,902	9,400,316
2034	9,400,316	542,724	661,121	9,281,919
2035	9,281,919	536,425	636,123	9,182,221
2036	9,182,221	531,257	610,851	9,102,627
2037	9,102,627	527,301	585,423	9,044,505
2038	9,044,505	524,629	560,104	9,009,030
2039	9,009,030	522,876	548,452	8,983,454
2040	8,983,454	521,704	537,192	8,967,966
2041	8,967,966	521,549	513,160	8,976,355
2042	8,976,355	522,749	491,508	9,007,596
2043	9,007,596	524,582	492,822	9,039,356
2044	9,039,356	527,087	474,217	9,092,226
2045	9,092,226	530,957	452,548	9,170,635
2046	9,170,635	536,325	431,939	9,275,021
2047	9,275,021	543,232	411,953	9,406,300
2048	9,406,300	551,758	391,803	9,566,255
2049	9,566,255	561,973	372,603	9,755,625
2050	9,755,625	573,935	353,992	9,975,568
2051	9,975,568	587,720	335,730	10,227,558
2052	10,227,558	603,419	317,745	10,513,232

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City or Members:

All future years

Certain Key Assumptions

Investment return assumption

6.0%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of System assets does not include future contributions from the City or Member. For this reason, this projection should not be viewed as representative of the amount of time the System can sustain benefit payments. Under the Government Accounting Standards Board standards which include City and Member contributions, the System is expected to be able to pay all future benefit payments.



Asset and Benefit Payment Projection
Not Reflecting Any Future Contributions
Using Assumptions Required Under 112.664(1)(b), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2023	\$ 11,394,283	\$ 437,348	\$ 855,447	\$ 10,976,184
2024	10,976,184	420,932	841,144	10,555,972
2025	10,555,972	404,221	836,615	10,123,578
2026	10,123,578	386,842	840,475	9,669,945
2027	9,669,945	369,288	813,012	9,226,221
2028	9,226,221	352,049	789,315	8,788,955
2029	8,788,955	335,049	766,564	8,357,440
2030	8,357,440	318,309	742,404	7,933,345
2031	7,933,345	301,882	717,459	7,517,768
2032	7,517,768	285,595	701,849	7,101,514
2033	7,101,514	269,288	685,902	6,684,900
2034	6,684,900	253,158	661,121	6,276,937
2035	6,276,937	237,377	636,123	5,878,191
2036	5,878,191	221,972	610,851	5,489,312
2037	5,489,312	206,964	585,423	5,110,853
2038	5,110,853	192,371	560,104	4,743,120
2039	4,743,120	177,913	548,452	4,372,581
2040	4,372,581	163,334	537,192	3,998,723
2041	3,998,723	148,897	513,160	3,634,460
2042	3,634,460	134,793	491,508	3,277,745
2043	3,277,745	120,496	492,822	2,905,419
2044	2,905,419	106,004	474,217	2,537,206
2045	2,537,206	91,742	452,548	2,176,400
2046	2,176,400	77,753	431,939	1,822,214
2047	1,822,214	64,016	411,953	1,474,277
2048	1,474,277	50,533	391,803	1,133,007
2049	1,133,007	37,296	372,603	797,700
2050	797,700	24,284	353,992	467,992
2051	467,992	11,489	335,730	143,751
2052	143,751	1,063	317,745	0

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City or Members: 29.42

Certain Key Assumptions

Investment return assumption 4.0%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of System assets does not include future contributions from the City or Member. For this reason, this projection should not be viewed as representative of the amount of time the System can sustain benefit payments. Under the Government Accounting Standards Board standards which include City and Member contributions, the System is expected to be able to pay all future benefit payments.



ACTUARIALLY DETERMINED CONTRIBUTION

	Valuation Assumptions and 112.664(1)(a), F.S. <u>Assumptions</u>	112.664(1)(b), F.S. <u>Assumptions</u>
A. Valuation Date	October 1, 2022	October 1, 2022
B. Actuarial Determined Contribution to Be Paid During Fiscal Year Ending	September 30, 2024	September 30, 2024
C. Annual Payroll of Active Employees	\$ 139,133	\$ 139,133
D. Total Minimum Funding Requirement		
1. Total Normal Cost	\$ 84,785	\$ 107,405
2. Annual Payment to Amortize Unfunded Actuarial Liability	(339,506)	(105,960)
3. Interest Adjustment	<u>(23,509)</u>	<u>(303)</u>
4. Total Minimum Funding Requirement (1. + 2. + 3., not less than 1.)	\$ 84,785	\$ 107,405
E. Expected Contribution Sources (\$ / % of pay)		
1. City	\$ 75,046 53.94%	\$ 97,666 70.20%
2. Member	<u>9,739 7.00%</u>	<u>9,739 7.00%</u>
3. Total	\$ 84,785 60.94%	\$ 107,405 77.20%

Unfunded Actuarial Accrued Liabilities Bases and Amortization Payments

	<u>Amortization Base</u>	Current Unfunded <u>Liabilities</u>	<u>Amortization Payment</u>		Remaining Funding <u>Period</u>
			112.664(1)(a), F.S. <u>Assumptions</u>	112.664(1)(b), F.S. <u>Assumptions</u>	
10/01/2010	Combined Bases *	\$ 87,216	\$ 13,250	\$ 12,456	8 years
10/01/2011	Actuarial Loss / (Gain)	226,110	61,560	59,895	4 years
10/01/2012	Actuarial Loss / (Gain)	(268,115)	(60,047)	(57,910)	5 years
10/01/2013	Actuarial Loss / (Gain)	(630,314)	(120,927)	(115,615)	6 years
10/01/2014	Actuarial Loss / (Gain)	(1,133,718)	(191,593)	(181,623)	7 years
10/01/2015	Actuarial Loss / (Gain)	(823,575)	(125,118)	(117,619)	8 years
10/01/2015	Establish Credit Balance	2,107,651	320,196	301,005	8 years
10/01/2016	Actuarial Loss / (Gain)	(427,776)	(59,333)	(55,320)	9 years
10/01/2016	Assumptions Change	115,134	15,969	14,889	9 years
10/01/2017	Actuarial Loss / (Gain)	(315,057)	(40,383)	(37,350)	10 years
10/01/2018	Actuarial Loss / (Gain)	(320,450)	(38,331)	(35,172)	11 years
10/01/2019	Actuarial Loss / (Gain)	(204,747)	(23,039)	(20,977)	12 years
10/01/2019	Assumptions Change	(278,736)	(31,365)	(28,558)	12 years
10/01/2020	Actuarial Loss / (Gain)	(416,150)	(44,347)	(40,072)	13 years
10/01/2021	Actuarial Loss / (Gain)	(147,417)	(14,962)	(13,419)	14 years
10/01/2021	Assumptions Change	(42,717)	(4,336)	(3,888)	14 years
10/01/2022	Actuarial Loss / (Gain)	33,975	3,300	2,938	15 years
10/01/2022	Assumption Change - 112.664(1)(b), F.S. Assumptions	2,432,645	N/A	210,380	15 years

* Combined per Internal Revenue Code Regulation 1.412(b)-1



SECTION B



SUMMARY OF SYSTEM PROVISIONS

**Outline of Principal Provisions of the Retirement System
(as of October 1, 2022)**

A. Eligibility:

All elected officials, city attorneys and assistant city attorneys are eligible to participate. Effective January 1, 2014, the System is closed to new entrants.

B. Normal Retirement:

1. Eligibility:

Earlier of:

- (a) Attainment of age 55 with completion of 8 years of credited service.
- (b) Completion of 20 years of credited service.

2. Mandatory Retirement Age:

None.

3. Amount of Pension:

Total service not to exceed 25 years, times 3.0% of final average monthly compensation at time of retirement.

4. Normal Form:

Normal form of benefit is payable for life with 60 months guaranteed.

5. Type of Final Average Salary:

Highest annual W-2 pay prior to termination or retirement divided by 12.

C. Deferred Retirement:

1. Eligibility:

100% vesting upon the completion of 8 years of credited service - pension begins at age 55. Employees who have not completed 8 years of credited service at date of termination of employment shall be entitled to the return of their member contributions with 3% compound interest.

2. Benefit:

Computed as a regular retirement but based upon service and compensation at time of termination.



**Outline of Principal Provisions of the Retirement System
(as of October 1, 2022)**

D. Duty Disability Retirement:

None.

E. Non-Duty Disability Retirement:

None.

F. Pre-Retirement Death:

1. Eligibility:

Immediate.

2. Benefit:

Computed as for normal retirement and payable immediately, but terminates after 60 payments of monthly amount or 120 payments of one-half monthly amount.

G. City Contributions:

Actuarially determined amounts sufficient to cover the funding requirements.

H. Member Contributions:

7% of compensation for members who are not vested as of January 1, 2014. None for members who are vested as of January 1, 2014.

I. Changes Since Previous Actuarial Valuation:

None.



SECTION C

ACTUARIAL ASSUMPTIONS AND COST METHODS USED FOR FUNDING

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2022)**

A. Mortality:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

Sample Ages (2022)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Men	Women	Men	Women
	55	32.75	35.17	28.83
60	27.89	30.14	24.73	28.00
62	25.99	28.16	23.10	26.17

Sample Ages (2042)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Men	Women	Men	Women
	55	34.38	36.65	30.85
60	29.45	31.58	26.59	29.67
62	27.52	29.57	24.90	27.79

B. Interest to be Earned by Fund:

6.0%, compounded annually, net of investment expenses - includes inflation of 2.75%.

C. Allowances for Expenses or Contingencies:

Estimated expenses are based on actual expenses paid in previous year.



**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2022)**

D. Employee Withdrawal Rates:

The rates do not apply to members eligible to retire and do not include separation on account of death or disability. This estimate measures the probabilities of members remaining in employment. These rates were first used for the September 30, 1995 valuation for Elected Officers and September 30, 2004 for Attorneys.

<u>Sample Ages</u>	<u>Years of Service</u>	<u>Withdrawal Rates Per 100 Employees</u>	
		<u>Elected Officers</u>	<u>Attorneys</u>
ALL	Less than 5	10	20
25	5 & Over	10	10
30		10	10
35		10	10
40		10	10
45		10	10
50		10	10
55		10	10
55		10	10

E. Disability Rates:

None.

F. Salary Increase Factors:

Employee salaries are estimated to increase between the date of hire and date of retirement. The following assumed rates of increase in individual salaries were first used for the September 30, 2021 valuation.

<u>Sample Ages</u>	<u>Salary Increase</u>
20	7.25%
30	7.25%
40	7.25%
50	7.25%
60	7.25%

General increase in wage level due to wage inflation is 3%.

G. Payroll Growth Assumption:

None.

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2022)**

H. Retirement Rates:

A member is assumed to retire upon becoming eligible for retirement after 20 or more years of service regardless of age or after attaining age 55 with 8 or more years of service. This rate was first used for the September 30, 1998 valuation.

I. Technical Assumptions:

1. Pay Increase Timing:

Beginning of year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the date preceding the valuation date.

2. Decrement Timing:

Decrements of all types are assumed to occur mid-year.

3. Eligibility Testing:

Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

4. Benefit Service:

Exact fractional service is used to determine the amount of benefit payable.

5. Decrement Relativity:

Decrement rates are used directly from tabular rates, without adjustment for multiple decrement table effects.

6. Decrement Operation:

Mortality decrement does not operate during the first 5 years of service. Withdrawal does not operate during retirement eligibility.

7. Incidence of Contributions:

Contributions are assumed to be received midway through the fiscal year.

8. Marriage Assumption:

100% of members are assumed to be married for purposes of death-in-service benefits.

J. Asset Valuation Method:

The method used for determining the smoothed actuarial value of assets phases in the deviation between the expected and actual return on assets at the rate of 20% per year. The smoothed actuarial value of assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of System assets and whose upper limit is 120% of the fair market value of System assets.

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2022)**

K. Cost Method:

Entry-Age-Normal Cost Method

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his entry age to his assumed retirement age to fund his estimated benefits, assuming the System had always been in effect. The normal cost for the System is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the System is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the assets of the System.

Vested Normal Retirement, Termination, Disability, and Death Benefits: Unit Credit Cost Method

Under this method, the actuarial present value of vested accrued benefits is an amount calculated to be the sum of the present values of each individual's vested accrued or earned benefit under the Fund as of the valuation date. Each individual's calculation is based on pay and service as of the valuation date.

L. Disclosure of Assumptions

The salary increase (wage inflation) assumption was updated based on the most recent assumption study performed as of September 30, 2020. The mortality rates are based upon the July 1, 2022 FRS Actuarial Valuation, as required under F.S., Chapter 2015-157.

M. Changes Since Previous Actuarial Valuation:

None.

SECTION D

GLOSSARY

GLOSSARY

<i>Actuarial Accrued Liability</i>	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
<i>Actuarial Assumptions</i>	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members and other items.
<i>Actuarial Cost Method</i>	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.
<i>Actuarial Equivalent</i>	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
<i>Actuarial Present Value</i>	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
<i>Actuarial Present Value of Future Benefits</i>	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
<i>Actuarial Valuation</i>	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67.
<i>Actuarial Value of Assets</i>	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution.

<i>Amortization Method</i>	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
<i>Amortization Payment</i>	That portion of the plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
<i>Amortization Period</i>	The period used in calculating the Amortization Payment.
<i>Annual Required Contribution</i>	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The annual required contribution consists of the Employer Normal Cost and Amortization Payment plus interest adjustment.
<i>Closed Amortization Period</i>	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
<i>Employer Normal Cost</i>	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
<i>Equivalent Single Amortization Period</i>	For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.
<i>Experience Gain/Loss</i>	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. Losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.
<i>Funded Ratio</i>	The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.

<i>GASB</i>	Governmental Accounting Standards Board.
<i>GASB No. 67 and GASB No. 68</i>	These are the governmental accounting standards that set the accounting rules for public retirement plans and the employers that sponsor or contribute to them. Statement No. 67 sets the accounting rules for the plans themselves, while Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement plans.
<i>Normal Cost</i>	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
<i>Open Amortization Period</i>	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.
<i>Unfunded Actuarial Accrued Liability</i>	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
<i>Valuation Date</i>	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.