City of Sunrise Police Officer's Retirement System

Chapter 112.664, F.S. Compliance Report

In Connection with the October 1, 2020 Funding Actuarial Valuation Report and the Plan's Financial Reporting for the Year Ending September 30, 2020





July 12, 2021

Board of Trustees City of Sunrise Police Officers' Retirement System Sunrise, Florida

Dear Board Members:

Gabriel, Roeder, Smith & Company (GRS) has been engaged by the City of Sunrise Police Officers' Retirement System (Plan) to prepare a disclosure report to satisfy the requirements set forth in Ch. 112.664, F.S. and as further required pursuant to Ch. 60T-1.0035, F.A.C.

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

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

The findings in this report are based on data or other information through September 30, 2020. 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 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 City and Plan Administrator concerning Plan benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by the City and Plan Administrator.

Except as otherwise indicated as required for the disclosures contained herein, this report was prepared using certain assumptions selected by the Board as described in our October 1, 2020 actuarial valuation report. This report is also based on the Plan Provisions, census data, and financial information as summarized in our October 1, 2020 actuarial valuation report. Please refer to the October 1, 2020 actuarial valuation report, dated June 9, 2021, for summaries and descriptions of this information.

Board of Trustees July 12, 2021 Page ii

The use of an investment return assumption that is 2% higher than the investment return assumption used to determine the funding requirements does not represent an estimate of future Plan experience nor does it reflect an observation of future return estimates inherent in financial market data. The use of this investment return assumption is provided as a counterpart to the Chapter 112.664, Florida Statutes requirement to utilize an investment return assumption that is 2% lower than the assumption used to determine the funding requirements. The inclusion of the additional exhibits showing the effect of using a 2% higher investment return assumption shows a more complete assessment of the range of possible results as opposed to showing a one-sided range as required by Florida Statutes.

Jeffrey Amrose and Trisha Amrose 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 plan 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 fairly presents the actuarial position of the Retirement Plan as of the valuation date. 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 plans or systems contained in Section 112.664(1) F.S., the actuarial disclosures required under this section were prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, meet the requirements of Section 112.664(1), F.S. and Section 60T-1.0035, F.A.C.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

By

Jeffrey Amrose, MAAA

Enrolled Actuary No. 20-6599
Senior Consultant & Actuary

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Consultant & Actuary



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CH. 112.664, Florida Statutes RESULTS

Schedule of Changes in the Employers' Net Pension Liability Using Financial Reporting Assumptions per GASB Statement No. 67

Fiscal year ending September 30,	2020	
1. Total pension liability		
a. Service Cost	\$	5,139,970
b. Interest		17,500,417
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		(151,036)
e. Assumption Changes		3,065,310
f. Benefit Payments		(9,291,479)
g. Contribution Refunds		(108,173)
h. Net Change in Total Pension Liability		16,155,009
i. Total Pension Liability - Beginning		228,323,472
j. Total Pension Liability - Ending	\$	244,478,481
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	11,187,132
b. Contributions - Employer (from State)		856,666
c. Contributions - Member		1,583,622
d. Net Investment Income		12,608,583
e. Benefit Payments		(9,291,479)
f. Contribution Refunds		(108,173)
g. Administrative Expense		(285,704)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		16,550,647
j. Plan Fiduciary Net Position - Beginning		158,635,415
k. Plan Fiduciary Net Position - Ending	\$	175,186,062
3. Net Pension Liability / (Asset)		69,292,419
Certain Key Assumptions		
Valuation Date		10/01/2019
Measurement Date		09/30/2020
Investment Return Assumption		7.35%
Mortality Table	FRS Moi	rtality Rates from
	7/1/	'19 FRS Valuation



Schedule of Changes in the Employers' Net Pension Liability Using Assumptions required under 112.664(1)(a), F.S.

Fiscal year ending September 30,	2020	
1. Total pension liability		_
a. Service Cost	\$	5,139,970
b. Interest		17,500,417
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		(151,036)
e. Assumption Changes		3,065,310
f. Benefit Payments		(9,291,479)
g. Contribution Refunds		(108,173)
h. Net Change in Total Pension Liability		16,155,009
i. Total Pension Liability - Beginning		228,323,472
j. Total Pension Liability - Ending	\$	244,478,481
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	11,187,132
b. Contributions - Employer (from State)		856,666
c. Contributions - Member		1,583,622
d. Net Investment Income		12,608,583
e. Benefit Payments		(9,291,479)
f. Contribution Refunds		(108,173)
g. Administrative Expense		(285,704)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		16,550,647
j. Plan Fiduciary Net Position - Beginning		158,635,415
k. Plan Fiduciary Net Position - Ending	\$	175,186,062
3. Net Pension Liability / (Asset)		69,292,419
Certain Key Assumptions		
Valuation Date		10/01/2019
Measurement Date		09/30/2020
Investment Return Assumption		7.35%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/19 FRS Valuation



Schedule of Changes in the Employers' Net Pension Liability Using Assumptions required under 112.664(1)(b), F.S.

Fiscal year ending September 30,	2020	
1. Total pension liability		
a. Service Cost	\$	8,710,855
b. Interest		16,304,348
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		-
e. Assumption Changes		-
f. Benefit Payments		(9,291,479)
g. Contribution Refunds		(108,173)
h. Net Change in Total Pension Liability		15,615,551
i. Total Pension Liability - Beginning		300,743,141
j. Total Pension Liability - Ending	\$	316,358,692
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	11,187,132
b. Contributions - Employer (from State)		856,666
c. Contributions - Member		1,583,622
d. Net Investment Income		12,608,583
e. Benefit Payments		(9,291,479)
f. Contribution Refunds		(108,173)
g. Administrative Expense		(285,704)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		16,550,647
j. Plan Fiduciary Net Position - Beginning		158,635,415
k. Plan Fiduciary Net Position - Ending	\$	175,186,062
3. Net Pension Liability / (Asset)		141,172,630
Certain Key Assumptions		
Valuation Date		10/01/2019
Measurement Date		09/30/2020
Investment Return Assumption		5.35%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/19 FRS Valuation



Schedule of Changes in the Employers' Net Pension Liability Using Assumptions under 112.664(1)(b), F.S. except 2% higher investment return assumption

Fiscal year ending September 30,	2020	
1. Total pension liability		
a. Service Cost	\$	3,553,506
b. Interest		17,215,043
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		-
e. Assumption Changes		-
f. Benefit Payments		(9,291,479)
g. Contribution Refunds		(108,173)
h. Net Change in Total Pension Liability		11,368,897
i. Total Pension Liability - Beginning		185,264,422
j. Total Pension Liability - Ending	\$	196,633,319
	·	
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	11,187,132
b. Contributions - Employer (from State)		856,666
c. Contributions - Member		1,583,622
d. Net Investment Income		12,608,583
e. Benefit Payments		(9,291,479)
f. Contribution Refunds		(108,173)
g. Administrative Expense		(285,704)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		16,550,647
j. Plan Fiduciary Net Position - Beginning		158,635,415
k. Plan Fiduciary Net Position - Ending	\$	175,186,062
3. Net Pension Liability / (Asset)		21,447,257
,		, ,
Certain Key Assumptions		
Valuation Date		10/01/2019
Measurement Date		09/30/2020
Investment Return Assumption		9.35%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/19 FRS Valuation



Asset and Benefit Payment Projection Not Reflecting Any Contributions from the Employer, State or Employee Using Assumptions per the Plan's latest Actuarial Valuation

	Market Value of	Expected Investment	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2021	168,977,329	11,804,076	12,324,983	168,456,422
2022	168,456,422	11,735,780	13,167,179	167,025,023
2023	167,025,023	11,602,605	13,978,172	164,649,456
2024	164,649,456	11,417,875	14,323,039	161,744,292
2025	161,744,292	11,183,214	14,986,135	157,941,371
2026	157,941,371	10,879,480	15,759,169	153,061,682
2027	153,061,682	10,503,603	16,368,794	147,196,491
2028	147,196,491	10,058,163	16,926,407	140,328,247
2029	140,328,247	9,541,478	17,443,310	132,426,415
2030	132,426,415	8,954,235	17,839,456	123,541,194
2031	123,541,194	8,298,801	18,149,960	113,690,035
2032	113,690,035	7,572,363	18,487,284	102,775,114
2033	102,775,114	6,770,913	18,766,432	90,779,595
2034	90,779,595	5,889,166	19,099,447	77,569,314
2035	77,569,314	4,920,524	19,400,024	63,089,814
2036	63,089,814	3,860,826	19,674,080	47,276,560
2037	47,276,560	2,705,860	19,908,701	30,073,719
2038	30,073,719	1,450,780	20,125,916	11,398,583
2039	11,398,583	91,017	20,286,360	-
2040	-	-	20,459,393	-
2041	-	-	20,602,966	-
2042	-	-	20,721,941	-
2043	-	-	20,855,492	-
2044	-	-	20,931,608	-
2045	-	-	21,005,944	-
2046	-	-	21,016,936	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits, <u>reflecting no contributions from</u> the Employer, Employee or State, contrary to Florida Statutes and Plan provisions:

18.58

Certain Key Assumptions

Valuation Investment return assumption Valuation Mortality Table

7.25%

FRS Mortality Rates from 7/1/19 FRS Valuation



Asset and Benefit Payment Projection Not Reflecting Any Contributions from the Employer, State or Employee Using Assumptions required under 112.664(1)(a), F.S.

	Market Value of	Expected Investment	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2021	168,977,329	11,804,076	12,324,983	168,456,422
2022	168,456,422	11,735,780	13,167,179	167,025,023
2023	167,025,023	11,602,605	13,978,172	164,649,456
2024	164,649,456	11,417,875	14,323,039	161,744,292
2025	161,744,292	11,183,214	14,986,135	157,941,371
2026	157,941,371	10,879,480	15,759,169	153,061,682
2027	153,061,682	10,503,603	16,368,794	147,196,491
2028	147,196,491	10,058,163	16,926,407	140,328,247
2029	140,328,247	9,541,478	17,443,310	132,426,415
2030	132,426,415	8,954,235	17,839,456	123,541,194
2031	123,541,194	8,298,801	18,149,960	113,690,035
2032	113,690,035	7,572,363	18,487,284	102,775,114
2033	102,775,114	6,770,913	18,766,432	90,779,595
2034	90,779,595	5,889,166	19,099,447	77,569,314
2035	77,569,314	4,920,524	19,400,024	63,089,814
2036	63,089,814	3,860,826	19,674,080	47,276,560
2037	47,276,560	2,705,860	19,908,701	30,073,719
2038	30,073,719	1,450,780	20,125,916	11,398,583
2039	11,398,583	91,017	20,286,360	-
2040	-	-	20,459,393	-
2041	-	-	20,602,966	-
2042	-	-	20,721,941	-
2043	-	-	20,855,492	-
2044	-	-	20,931,608	-
2045	-	-	21,005,944	-
2046	-	-	21,016,936	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits, <u>reflecting no contributions from</u> <u>the Employer, Employee or State, contrary to Florida Statutes and Plan provisions</u>:

18.58

Certain Key Assumptions

Valuation Investment return assumption Valuation Mortality Table

7.25%

FRS Mortality Rates from 7/1/19 FRS Valuation



Asset and Benefit Payment Projection Not Reflecting Any Contributions from the Employer, State or Employee Using Assumptions required under 112.664(1)(b), F.S.

	Market Value of	Expected Investment	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2021	168,977,329	8,547,779	12,324,983	165,200,125
2022	165,200,125	8,327,368	13,167,179	160,360,314
2023	160,360,314	8,051,989	13,978,172	154,434,131
2024	154,434,131	7,731,812	14,323,039	147,842,904
2025	147,842,904	7,368,366	14,986,135	140,225,135
2026	140,225,135	6,948,141	15,759,169	131,414,107
2027	131,414,107	6,469,560	16,368,794	121,514,873
2028	121,514,873	5,935,213	16,926,407	110,523,679
2029	110,523,679	5,344,606	17,443,310	98,424,975
2030	98,424,975	4,699,025	17,839,456	85,284,544
2031	85,284,544	4,001,002	18,149,960	71,135,586
2032	71,135,586	3,249,327	18,487,284	55,897,629
2033	55,897,629	2,442,007	18,766,432	39,573,204
2034	39,573,204	1,576,233	19,099,447	22,049,990
2035	22,049,990	648,374	19,400,024	3,298,340
2036	3,298,340	-	19,674,080	-
2037	-	-	19,908,701	-
2038	-	-	20,125,916	-
2039	-	-	20,286,360	-
2040	-	-	20,459,393	-
2041	-	-	20,602,966	-
2042	-	-	20,721,941	-
2043	-	-	20,855,492	-
2044	-	-	20,931,608	-
2045	-	-	21,005,944	-
2046	-	-	21,016,936	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits, <u>reflecting no contributions from the Employer</u>, <u>Employee or State</u>, <u>contrary to Florida Statutes and Plan provisions</u>:

15.17

Certain Key Assumptions

Valuation Investment return assumption

5.25%

Valuation Mortality Table

FRS Mortality Rates from 7/1/19 FRS Valuation



Asset and Benefit Payment Projection Not Reflecting Any Contributions from the Employer, State or Employee Using Assumptions under 112.664(1)(b), F.S. except 2% higher investment return assumption

	Market Value of	Expected Investment	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2021	168,977,329	15,060,372	12,324,983	171,712,718
2022	171,712,718	15,274,444	13,167,179	173,819,983
2023	173,819,983	15,431,858	13,978,172	175,273,669
2024	175,273,669	15,550,374	14,323,039	176,501,004
2025	176,501,004	15,633,234	14,986,135	177,148,103
2026	177,148,103	15,657,338	15,759,169	177,046,272
2027	177,046,272	15,619,723	16,368,794	176,297,201
2028	176,297,201	15,524,645	16,926,407	174,895,439
2029	174,895,439	15,371,075	17,443,310	172,823,204
2030	172,823,204	15,161,072	17,839,456	170,144,820
2031	170,144,820	14,898,960	18,149,960	166,893,820
2032	166,893,820	14,582,641	18,487,284	162,989,177
2033	162,989,177	14,208,551	18,766,432	158,431,296
2034	158,431,296	13,771,545	19,099,447	153,103,394
2035	153,103,394	13,264,813	19,400,024	146,968,183
2036	146,968,183	12,684,631	19,674,080	139,978,734
2037	139,978,734	12,027,255	19,908,701	132,097,288
2038	132,097,288	11,288,176	20,125,916	123,259,548
2039	123,259,548	10,463,264	20,286,360	113,436,452
2040	113,436,452	9,546,625	20,459,393	102,523,684
2041	102,523,684	8,530,554	20,602,966	90,451,272
2042	90,451,272	7,408,353	20,721,941	77,137,684
2043	77,137,684	6,170,669	20,855,492	62,452,861
2044	62,452,861	4,808,803	20,931,608	46,330,056
2045	46,330,056	3,314,005	21,005,944	28,638,117
2046	28,638,117	1,676,993	21,016,936	9,298,174
2047	9,298,174	-	21,024,674	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits, <u>reflecting no contributions from</u> <u>the Employer, Employee or State, contrary to Florida Statutes and Plan provisions</u>:

26.42

Certain Key Assumptions

Valuation Investment return assumption Valuation Mortality Table

9.25%

FRS Mortality Rates from 7/1/19 FRS Valuation



ACTUARIALLY DETERMINED CONTRIBUTION					
	Plan's Latest Actuarial Valuation Assumptions	112.664(1)(a) F.S. Assumptions	112.664(1)(b) F.S. Assumptions	112.664(1)(b) F.S. Except 2% Higher Investment Return Assumption	
A. Valuation Date	October 1, 2020	October 1, 2020	October 1, 2020	October 1, 2020	
B. Actuarially Determined Contribution (ADC) to Be Paid During Fiscal Year Ending	9/30/2022	9/30/2022	9/30/2022	9/30/2022	
C. Assumed Dates of Employer Contributions	Biweekly	Biweekly	Biweekly	Biweekly	
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 7,561,050	\$ 7,561,050	\$ 11,812,994	\$ 3,900,908	
E. Employer Normal Cost	3,506,777	3,506,777	6,385,870	1,861,367	
F. Employer ADC if Paid on Valuation Date: D + E	11,067,827	11,067,827	18,198,864	5,762,275	
G. Employer ADC Adjusted for Frequency of Payments	11,470,475	11,470,475	18,682,772	6,027,224	
H. Employer ADC Adjusted for Frequency of Payments as % of Covered Payroll	72.00 %	72.00 %	117.27 %	37.83 %	
Assumed Rate of Increase in Covered Payroll to Contribution Year	3.00 %	3.00 %	3.00 %	3.00 %	
J. Covered Payroll for Contribution Year	16,409,650	16,409,650	16,409,650	16,409,650	
K. ADC for Contribution Year: H x J	11,814,948	11,814,948	19,243,597	6,207,771	
L. Allowable Credit for State Revenue in Contribution Year	856,666	856,666	856,666	856,666	
M. Net Employer ADC After State Revenue in Contribution Year	10,958,282	10,958,282	18,386,931	5,351,105	
N. Net Employer ADC as % of Covered Payroll in Contribution Year: M ÷ J	66.78 %	66.78 %	112.05 %	32.61 %	
O. Expected Member Contributions	1,556,848	1,556,848	1,556,848	1,556,848	
P. Total Contribution (including Members) in Contributing Year: K + O	13,371,796	13,371,796	20,800,445	7,764,619	
Q. Total Contribution as a % of covered payroll in Contribution Year: P ÷ J	81.49 %	81.49 %	126.76 %	47.32 %	
R. Certain Key Assumptions Investment Return Assumption Mortality Table	7.25% FRS Mortality	7.25% FRS Mortality	5.25% FRS Mortality	9.25% FRS Mortality	

