## City of Sunrise Police Officer's Retirement System

Chapter 112.664, F.S. Compliance Report

In Connection with the October 1, 2018 Funding Actuarial Valuation Report and the Plan's Financial Reporting for the Year Ending September 30, 2018





July 26, 2019

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, 2018. 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, 2018 actuarial valuation report. This report is also based on the Plan Provisions, census data, and financial information as summarized in our October 1, 2018 actuarial valuation report. Please refer to the October 1, 2018 actuarial valuation report, dated April 22, 2019, for summaries and descriptions of this information.

**Board of Trustees** July 26, 2019 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 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

Jeffrey Amrose, MAAA

Enrolled Actuary No. 17-6599

Senior Consultant & Actuary

Trisha Amrose, MAAA

Enrolled Actuary No. 17-8010

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,	2018	
1. Total pension liability		_
a. Service Cost	\$	4,857,819
b. Interest		15,162,272
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		4,093,499
e. Assumption Changes		1,265,641
f. Benefit Payments		(9,924,857)
g. Contribution Refunds		(66,853)
h. Net Change in Total Pension Liability	·	15,387,521
i. Total Pension Liability - Beginning		195,780,249
j. Total Pension Liability - Ending	\$	211,167,770
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	9,431,736
b. Contributions - Employer (from State)		785,047
c. Contributions - Member		1,698,916
d. Net Investment Income		11,384,925
e. Benefit Payments		(9,924,857)
f. Contribution Refunds		(66,853)
g. Administrative Expense		(279,917)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		13,028,997
j. Plan Fiduciary Net Position - Beginning		138,217,216
k. Plan Fiduciary Net Position - Ending	\$	151,246,213
3. Net Pension Liability / (Asset)		59,921,557
Certain Key Assumptions		
Valuation Date		10/01/2017
Measurement Date		09/30/2018
Investment Return Assumption		7.70%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	17 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,	2018	
1. Total pension liability		_
a. Service Cost	\$	4,857,819
b. Interest		15,162,272
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		4,093,499
e. Assumption Changes		1,265,641
f. Benefit Payments		(9,924,857)
g. Contribution Refunds		(66,853)
h. Net Change in Total Pension Liability		15,387,521
i. Total Pension Liability - Beginning		195,780,249
j. Total Pension Liability - Ending	\$	211,167,770
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	9,431,736
b. Contributions - Employer (from State)		785,047
c. Contributions - Member		1,698,916
d. Net Investment Income		11,384,925
e. Benefit Payments		(9,924,857)
f. Contribution Refunds		(66,853)
g. Administrative Expense		(279,917)
h. Other		-
i. Net Change in Plan Fiduciary Net Position	<u> </u>	13,028,997
j. Plan Fiduciary Net Position - Beginning		138,217,216
k. Plan Fiduciary Net Position - Ending	\$	151,246,213
3. Net Pension Liability / (Asset)		59,921,557
Certain Key Assumptions		
Valuation Date		10/01/2017
Measurement Date		09/30/2018
Investment Return Assumption		7.70%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/17 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,	2018	
1. Total pension liability		_
a. Service Cost	\$	7,893,868
b. Interest		15,088,801
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		-
e. Assumption Changes		-
f. Benefit Payments		(9,924,857)
g. Contribution Refunds		(66,853)
h. Net Change in Total Pension Liability		12,990,959
i. Total Pension Liability - Beginning		261,817,800
j. Total Pension Liability - Ending	\$	274,808,759
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	9,431,736
b. Contributions - Employer (from State)		785,047
c. Contributions - Member		1,698,916
d. Net Investment Income		11,384,925
e. Benefit Payments		(9,924,857)
f. Contribution Refunds		(66,853)
g. Administrative Expense		(279,917)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		13,028,997
j. Plan Fiduciary Net Position - Beginning		138,217,216
k. Plan Fiduciary Net Position - Ending	\$	151,246,213
3. Net Pension Liability / (Asset)		123,562,546
Certain Key Assumptions		
Valuation Date		10/01/2017
Measurement Date		09/30/2018
Investment Return Assumption		5.70%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/17 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,	2018	
1. Total pension liability		_
a. Service Cost	\$	3,215,332
b. Interest		15,401,116
c. Benefit Changes		-
d. Difference between actual & expected experience & Other		-
e. Assumption Changes		-
f. Benefit Payments		(9,924,857)
g. Contribution Refunds		(66,853)
h. Net Change in Total Pension Liability		8,624,738
i. Total Pension Liability - Beginning		160,554,916
j. Total Pension Liability - Ending	\$	169,179,654
2. Plan Fiduciary Net Position		
a. Contributions - Employer	\$	9,431,736
b. Contributions - Employer (from State)	r	785,047
c. Contributions - Member		1,698,916
d. Net Investment Income		11,384,925
e. Benefit Payments		(9,924,857)
f. Contribution Refunds		(66,853)
g. Administrative Expense		(279,917)
h. Other		-
i. Net Change in Plan Fiduciary Net Position		13,028,997
j. Plan Fiduciary Net Position - Beginning		138,217,216
k. Plan Fiduciary Net Position - Ending	\$	151,246,213
3. Net Pension Liability / (Asset)		17,933,441
Certain Key Assumptions		
Valuation Date		10/01/2017
Measurement Date		09/30/2018
Investment Return Assumption		9.70%
Mortality Table	FRS Mo	rtality Rates from
	7/1,	/17 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	<b>Expected Investment</b>	<b>Projected Benefit</b>	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2019	145,849,792	10,793,462	9,517,567	147,125,687
2020	147,125,687	10,852,597	10,523,361	147,454,923
2021	147,454,923	10,837,406	11,578,967	146,713,362
2022	146,713,362	10,748,834	12,411,457	145,050,739
2023	145,050,739	10,590,556	13,224,196	142,417,099
2024	142,417,099	10,371,225	13,691,058	139,097,266
2025	139,097,266	10,093,221	14,319,481	134,871,005
2026	134,871,005	9,745,207	14,965,354	129,650,859
2027	129,650,859	9,329,290	15,398,723	123,581,425
2028	123,581,425	8,850,200	15,785,067	116,646,558
2029	116,646,558	8,304,948	16,170,299	108,781,207
2030	108,781,207	7,691,704	16,472,105	100,000,806
2031	100,000,806	7,010,541	16,719,489	90,291,859
2032	90,291,859	6,257,771	16,981,868	79,567,761
2033	79,567,761	5,429,512	17,187,497	67,809,776
2034	67,809,776	4,520,672	17,432,055	54,898,393
2035	54,898,393	3,524,510	17,652,733	40,770,170
2036	40,770,170	2,436,449	17,842,318	25,364,302
2037	25,364,302	1,250,952	18,023,975	8,591,279
2038	8,591,279	-	18,186,246	-
2039	-	-	18,302,061	-
2040	-	-	18,439,932	-
2041	-	-	18,539,109	-
2042	-	-	18,629,625	-
2043	-	-	18,722,903	-
2044	-	-	18,766,004	-

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:

19.50

#### **Certain Key Assumptions**

Valuation Investment return assumption Valuation Mortality Table

7.65%

FRS Mortality Rates from 7/1/17 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	<b>Expected Investment</b>	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2019	145,849,792	10,793,462	9,517,567	147,125,687
2020	147,125,687	10,852,597	10,523,361	147,454,923
2021	147,454,923	10,837,406	11,578,967	146,713,362
2022	146,713,362	10,748,834	12,411,457	145,050,739
2023	145,050,739	10,590,556	13,224,196	142,417,099
2024	142,417,099	10,371,225	13,691,058	139,097,266
2025	139,097,266	10,093,221	14,319,481	134,871,005
2026	134,871,005	9,745,207	14,965,354	129,650,859
2027	129,650,859	9,329,290	15,398,723	123,581,425
2028	123,581,425	8,850,200	15,785,067	116,646,558
2029	116,646,558	8,304,948	16,170,299	108,781,207
2030	108,781,207	7,691,704	16,472,105	100,000,806
2031	100,000,806	7,010,541	16,719,489	90,291,859
2032	90,291,859	6,257,771	16,981,868	79,567,761
2033	79,567,761	5,429,512	17,187,497	67,809,776
2034	67,809,776	4,520,672	17,432,055	54,898,393
2035	54,898,393	3,524,510	17,652,733	40,770,170
2036	40,770,170	2,436,449	17,842,318	25,364,302
2037	25,364,302	1,250,952	18,023,975	8,591,279
2038	8,591,279	-	18,186,246	-
2039	-	-	18,302,061	-
2040	-	-	18,439,932	-
2041	-	-	18,539,109	-
2042	-	-	18,629,625	-
2043	-	-	18,722,903	-
2044	-	-	18,766,004	-

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:

19.50

#### **Certain Key Assumptions**

Valuation Investment return assumption Valuation Mortality Table

7.65%

FRS Mortality Rates from 7/1/17 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	<b>Expected Investment</b>	Projected Benefit	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2019	145,849,792	7,971,642	9,517,567	144,303,867
2020	144,303,867	7,855,884	10,523,361	141,636,390
2021	141,636,390	7,675,350	11,578,967	137,732,773
2022	137,732,773	7,431,278	12,411,457	132,752,594
2023	132,752,594	7,126,938	13,224,196	126,655,336
2024	126,655,336	6,769,254	13,691,058	119,733,532
2025	119,733,532	6,360,419	14,319,481	111,774,470
2026	111,774,470	5,892,486	14,965,354	102,701,602
2027	102,701,602	5,367,627	15,398,723	92,670,506
2028	92,670,506	4,789,955	15,785,067	81,675,394
2029	81,675,394	4,157,849	16,170,299	69,662,944
2030	69,662,944	3,470,619	16,472,105	56,661,459
2031	56,661,459	2,729,047	16,719,489	42,671,016
2032	42,671,016	1,931,175	16,981,868	27,620,323
2033	27,620,323	1,075,001	17,187,497	11,507,828
2034	11,507,828	157,737	17,432,055	-
2035	-	-	17,652,733	-
2036	-	-	17,842,318	-
2037	-	-	18,023,975	-
2038	-	-	18,186,246	-
2039	-	-	18,302,061	-
2040	-	-	18,439,932	-
2041	-	-	18,539,109	-
2042	-	-	18,629,625	-
2043	-	-	18,722,903	-
2044	-	-	18,766,004	-

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:

15.67

#### **Certain Key Assumptions**

Valuation Investment return assumption

5.65%

Valuation Mortality Table

FRS Mortality Rates from 7/1/17 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	<b>Expected Investment</b>	<b>Projected Benefit</b>	Market Value of
FYE	Assets (BOY)	Return	Payments	Assets (EOY)
2019	145,849,792	13,615,282	9,517,567	149,947,507
2020	149,947,507	13,962,182	10,523,361	153,386,329
2021	153,386,329	14,243,096	11,578,967	156,050,457
2022	156,050,457	14,460,016	12,411,457	158,099,016
2023	158,099,016	14,618,488	13,224,196	159,493,308
2024	159,493,308	14,730,511	13,691,058	160,532,761
2025	160,532,761	14,800,496	14,319,481	161,013,776
2026	161,013,776	14,815,751	14,965,354	160,864,173
2027	160,864,173	14,780,404	15,398,723	160,245,855
2028	160,245,855	14,702,095	15,785,067	159,162,883
2029	159,162,883	14,579,001	16,170,299	157,571,585
2030	157,571,585	14,410,879	16,472,105	155,510,359
2031	155,510,359	14,200,034	16,719,489	152,990,905
2032	152,990,905	13,944,247	16,981,868	149,953,284
2033	149,953,284	13,641,195	17,187,497	146,406,982
2034	146,406,982	13,287,177	17,432,055	142,262,104
2035	142,262,104	12,876,549	17,652,733	137,485,920
2036	137,485,920	12,406,499	17,842,318	132,050,101
2037	132,050,101	11,873,178	18,023,975	125,899,304
2038	125,899,304	11,271,796	18,186,246	118,984,855
2039	118,984,855	10,598,964	18,302,061	111,281,758
2040	111,281,758	9,848,963	18,439,932	102,690,789
2041	102,690,789	9,015,149	18,539,109	93,166,829
2042	93,166,829	8,091,720	18,629,625	82,628,923
2043	82,628,923	7,070,311	18,722,903	70,976,331
2044	70,976,331	5,943,756	18,766,004	58,154,084
2045	58,154,084	4,704,358	18,808,525	44,049,916
2046	44,049,916	3,343,073	18,813,343	28,579,647
2047	28,579,647	1,850,385	18,809,338	11,620,694
2048	11,620,694	215,940	18,765,948	-

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:

29.58

#### **Certain Key Assumptions**

Valuation Investment return assumption Valuation Mortality Table

9.65%

FRS Mortality Rates from 7/1/17 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, 2018	October 1, 2018	October 1, 2018	October 1, 2018	
B. Actuarially Determined Contribution (ADC) to Be Paid During Fiscal Year Ending	9/30/2020	9/30/2020	9/30/2020	9/30/2020	
C. Assumed Dates of Employer Contributions	Biweekly	Biweekly	Biweekly	Biweekly	
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 8,029,841	\$ 8,029,841	\$ 11,575,756	\$ 4,978,608	
E. Employer Normal Cost	3,663,076	3,663,076	6,748,010	1,904,280	
F. Employer ADC if Paid on Valuation Date: D+E	11,692,917	11,692,917	18,323,766	6,882,888	
G. Employer ADC Adjusted for Frequency of Payments	12,140,873	12,140,873	18,847,093	7,212,441	
H. Employer ADC Adjusted for Frequency of Payments as % of Covered Payroll	67.61 %	67.61 %	104.96 %	40.17 %	
Assumed Rate of Increase in Covered     Payroll to Contribution Year	3.00 %	3.00 %	3.00 %	3.00 %	
J. Covered Payroll for Contribution Year	18,494,776	18,494,776	18,494,776	18,494,776	
K. ADC for Contribution Year: H x J	12,504,318	12,504,318	19,412,117	7,429,351	
L. Allowable Credit for State Revenue in Contribution Year	785,047	785,047	785,047	785,047	
M. Net Employer ADC After State Revenue in Contribution Year	11,719,271	11,719,271	18,627,070	6,644,304	
N. Net Employer ADC as % of Covered Payroll in Contribution Year: M ÷ J	63.37 %	63.37 %	100.72 %	35.93 %	
O. Expected Member Contributions	1,780,588	1,780,588	1,780,588	1,780,588	
P. Total Contribution (including Members) in Contributing Year: K + O	14,284,906	14,284,906	21,192,705	9,209,939	
Q. Total Contribution as a % of covered payroll in Contribution Year: P ÷ J	77.24 %	77.24 %	114.59 %	49.80 %	
R. Certain Key Assumptions Investment Return Assumption Mortality Table	7.65% FRS Mortality	7.65% FRS Mortality	5.65% FRS Mortality	9.65% FRS Mortality	

