

CITY OF MIRAMAR
MUNICIPAL POLICE OFFICERS'
RETIREMENT PLAN

SECTION 112.664, FLORIDA STATUTES
COMPLIANCE

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), Florida Statutes, and Section 60T-1.0035, Florida Administrative Code.

By:



Date: 10/6/2022

Donald A. DuLaney, Jr. A.S.A., E.A.
Senior Consulting Actuary Enrolled
Actuary #20-4191

DuLaney and Company

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When reviewing the report, please note the following:

DuLaney and Company has prepared this report in order to satisfy the requirements set forth under Florida Statutes (FS) 112.664 and Ch. 60T-1.0035, F.A.C. These schedules have no impact on the funding requirements of the Plan. We have uploaded the semi-colon delimited file as described under Ch. 60T-1.0035.

The actuarial funding assumptions shown in our October 1, 2021 actuarial valuation report have been used in the preparation of this report, except as required for certain disclosures herein.

This report contains figures using an investment return assumption that is 2.0% higher than the actual funding assumption, in order to provide a balanced view, in light of the requirement to use an investment return assumption that is 2.0% lower than the actual funding assumption.

The schedules showing the projected number of years until the Fund becomes insolvent are required, but do not reflect what will occur. This is because no future contributions from any current funding source are assumed, as required for these disclosures, contrary to Florida Statutes.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

	Actual	Under Section 112.664(1)(a), F.S.	Under Section 112.664(1)(b), F.S.	Under Section 112.664(1)(b), F.S.
	Discount Rate: 7.00%	Discount Rate: 7.00%	Discount Rate: 5.00%	Discount Rate: 9.00%
	FRS 7/1/2021 Mortality	FRS 7/1/2021 Mortality	FRS 7/1/2021 Mortality	FRS 7/1/2021 Mortality
	<hr/> 9/30/2021	<hr/> 9/30/2021	<hr/> 9/30/2021	<hr/> 9/30/2021
1. Total pension liability:				
a. Service cost	\$ 4,511,346	\$ 4,511,346	\$ 7,074,066	\$ 3,023,145
b. Interest	\$ 19,913,300	\$ 19,913,300	\$ 18,167,346	\$ 21,024,459
c. Benefit changes	\$ -	\$ -	\$ -	\$ -
d. Difference between expected and actual experience	\$ 10,785,099	\$ 10,785,099	\$ 15,601,679	\$ 7,479,145
e. Changes in assumptions	\$ (1,043,177)	\$ (1,043,177)	\$ (1,356,185)	\$ (866,178)
f. Benefit payments	\$ (9,129,553)	\$ (9,129,553)	\$ (9,129,553)	\$ (9,129,553)
g. Contribution refunds	\$ (463,255)	\$ (463,255)	\$ (463,255)	\$ (463,255)
h. Net change in total pension liability	\$ 24,573,760	\$ 24,573,760	\$ 29,894,098	\$ 21,067,763
i. Total pension liability – beginning	\$ 285,803,948	\$ 285,803,948	\$ 362,425,448	\$ 236,244,538
j. Total pension liability – ending	\$ 310,377,708	\$ 310,377,708	\$ 392,319,546	\$ 257,312,301
2. Plan fiduciary net position:				
a. Contributions – City	\$ 9,348,470	\$ 9,348,470	\$ 9,348,470	\$ 9,348,470
b. Contributions – State	\$ 1,210,002	\$ 1,210,002	\$ 1,210,002	\$ 1,210,002
c. Contributions – Member	\$ 3,468,020	\$ 3,468,020	\$ 3,468,020	\$ 3,468,020
d. Net investment income	\$ 47,746,433	\$ 47,746,433	\$ 47,746,433	\$ 47,746,433
e. Benefit payments	\$ (9,129,553)	\$ (9,129,553)	\$ (9,129,553)	\$ (9,129,553)
f. Contributions refunds	\$ (463,255)	\$ (463,255)	\$ (463,255)	\$ (463,255)
g. Administrative expense	\$ (203,548)	\$ (203,548)	\$ (203,548)	\$ (203,548)
h. Other	\$ -	\$ -	\$ -	\$ -
i. Net change in plan fiduciary net position	\$ 51,976,569	\$ 51,976,569	\$ 51,976,569	\$ 51,976,569
j. Plan fiduciary net position – beginning	\$ 204,983,316	\$ 204,983,316	\$ 204,983,316	\$ 204,983,316
k. Plan fiduciary net position – ending	\$ 256,959,885	\$ 256,959,885	\$ 256,959,885	\$ 256,959,885
3. Net pension liability/(asset) [1.j. minus 2.k.]	\$ 53,417,823	\$ 53,417,823	\$ 135,359,661	\$ 352,416



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.10% and FRS 7/1/2021 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2021	\$198,967,243	\$11,738,471	\$13,709,959	\$200,938,731
10/1/2022	\$200,938,731	\$12,853,508	\$13,810,350	\$201,895,573
10/1/2023	\$201,895,573	\$14,085,614	\$13,834,546	\$201,644,505
10/1/2024	\$201,644,505	\$14,318,664	\$13,808,447	\$201,134,289
10/1/2025	\$201,134,289	\$15,529,555	\$13,729,235	\$199,333,969
10/1/2026	\$199,333,969	\$16,321,414	\$13,573,302	\$196,585,856
10/1/2027	\$196,585,856	\$17,227,184	\$13,346,031	\$192,704,703
10/1/2028	\$192,704,703	\$18,336,675	\$13,031,082	\$187,399,110
10/1/2029	\$187,399,110	\$18,799,269	\$12,637,963	\$181,237,804
10/1/2030	\$181,237,804	\$19,183,741	\$12,186,861	\$174,240,924
10/1/2031	\$174,240,924	\$19,577,563	\$11,676,102	\$166,339,463
10/1/2032	\$166,339,463	\$19,885,368	\$11,104,171	\$157,558,267
10/1/2033	\$157,558,267	\$20,381,298	\$10,463,101	\$147,640,070
10/1/2034	\$147,640,070	\$20,780,166	\$9,744,749	\$136,604,653
10/1/2035	\$136,604,653	\$21,311,754	\$8,942,363	\$124,235,262
10/1/2036	\$124,235,262	\$21,646,692	\$8,052,246	\$110,640,816
10/1/2037	\$110,640,816	\$21,933,464	\$7,076,860	\$95,784,212
10/1/2038	\$95,784,212	\$22,141,458	\$6,014,657	\$79,657,411
10/1/2039	\$79,657,411	\$22,376,031	\$4,861,327	\$62,142,707
10/1/2040	\$62,142,707	\$22,637,976	\$3,608,484	\$43,113,215
10/1/2041	\$43,113,215	\$22,948,623	\$2,246,362	\$22,410,954
10/1/2042	\$22,410,954	\$23,011,078	\$774,284	\$174,161
10/1/2043	\$174,161	\$23,022,326		



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.10% and FRS 7/1/2021 Mortality

Number of Years Expected Benefit Payments Sustained: 22.01

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.00% and FRS 7/1/2021 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2021	\$198,967,243	\$11,738,471	\$13,516,861	\$200,745,633
10/1/2022	\$200,745,633	\$12,853,508	\$13,602,321	\$201,494,446
10/1/2023	\$201,494,446	\$14,085,614	\$13,611,615	\$201,020,447
10/1/2024	\$201,020,447	\$14,318,664	\$13,570,278	\$200,272,061
10/1/2025	\$200,272,061	\$15,529,555	\$13,475,510	\$198,218,016
10/1/2026	\$198,218,016	\$16,321,414	\$13,304,012	\$195,200,613
10/1/2027	\$195,200,613	\$17,227,184	\$13,061,091	\$191,034,521
10/1/2028	\$191,034,521	\$18,336,675	\$12,730,633	\$185,428,479
10/1/2029	\$185,428,479	\$18,799,269	\$12,322,019	\$178,951,229
10/1/2030	\$178,951,229	\$19,183,741	\$11,855,155	\$171,622,643
10/1/2031	\$171,622,643	\$19,577,563	\$11,328,370	\$163,373,450
10/1/2032	\$163,373,450	\$19,885,368	\$10,740,154	\$154,228,236
10/1/2033	\$154,228,236	\$20,381,298	\$10,082,631	\$143,929,569
10/1/2034	\$143,929,569	\$20,780,166	\$9,347,764	\$132,497,167
10/1/2035	\$132,497,167	\$21,311,754	\$8,528,890	\$119,714,303
10/1/2036	\$119,714,303	\$21,646,692	\$7,622,367	\$105,689,978
10/1/2037	\$105,689,978	\$21,933,464	\$6,630,627	\$90,387,141
10/1/2038	\$90,387,141	\$22,141,458	\$5,552,149	\$73,797,832
10/1/2039	\$73,797,832	\$22,376,031	\$4,382,687	\$55,804,488
10/1/2040	\$55,804,488	\$22,637,976	\$3,113,985	\$36,280,497
10/1/2041	\$36,280,497	\$22,948,623	\$1,736,433	\$15,068,307
10/1/2042	\$15,068,307	\$23,011,078		



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.00% and FRS 7/1/2021 Mortality

Number of Years Expected Benefit Payments Sustained: 21.65

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 5.00% and FRS 7/1/2021 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2021	\$198,967,243	\$11,738,471	\$9,654,900	\$196,883,672
10/1/2022	\$196,883,672	\$12,853,508	\$9,522,846	\$193,553,010
10/1/2023	\$193,553,010	\$14,085,614	\$9,325,510	\$188,792,906
10/1/2024	\$188,792,906	\$14,318,664	\$9,081,679	\$183,555,921
10/1/2025	\$183,555,921	\$15,529,555	\$8,789,557	\$176,815,923
10/1/2026	\$176,815,923	\$16,321,414	\$8,432,761	\$168,927,270
10/1/2027	\$168,927,270	\$17,227,184	\$8,015,684	\$159,715,770
10/1/2028	\$159,715,770	\$18,336,675	\$7,527,372	\$148,906,467
10/1/2029	\$148,906,467	\$18,799,269	\$6,975,342	\$137,082,539
10/1/2030	\$137,082,539	\$19,183,741	\$6,374,533	\$124,273,332
10/1/2031	\$124,273,332	\$19,577,563	\$5,724,228	\$110,419,996
10/1/2032	\$110,419,996	\$19,885,368	\$5,023,866	\$95,558,494
10/1/2033	\$95,558,494	\$20,381,298	\$4,268,392	\$79,445,588
10/1/2034	\$79,445,588	\$20,780,166	\$3,452,775	\$62,118,197
10/1/2035	\$62,118,197	\$21,311,754	\$2,573,116	\$43,379,559
10/1/2036	\$43,379,559	\$21,646,692	\$1,627,811	\$23,360,678
10/1/2037	\$23,360,678	\$21,933,464	\$619,697	\$2,046,911
10/1/2038	\$2,046,911	\$22,141,458		



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 5.00% and FRS 7/1/2021 Mortality

Number of Years Expected Benefit Payments Sustained: 17.09

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 9.00% and FRS 7/1/2021 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2021	\$198,967,243	\$11,738,471	\$17,378,821	\$204,607,593
10/1/2022	\$204,607,593	\$12,853,508	\$17,836,275	\$209,590,360
10/1/2023	\$209,590,360	\$14,085,614	\$18,229,280	\$213,734,026
10/1/2024	\$213,734,026	\$14,318,664	\$18,591,722	\$218,007,084
10/1/2025	\$218,007,084	\$15,529,555	\$18,921,808	\$221,399,337
10/1/2026	\$221,399,337	\$16,321,414	\$19,191,477	\$224,269,400
10/1/2027	\$224,269,400	\$17,227,184	\$19,409,023	\$226,451,238
10/1/2028	\$226,451,238	\$18,336,675	\$19,555,461	\$227,670,024
10/1/2029	\$227,670,024	\$18,799,269	\$19,644,335	\$228,515,091
10/1/2030	\$228,515,091	\$19,183,741	\$19,703,090	\$229,034,439
10/1/2031	\$229,034,439	\$19,577,563	\$19,732,109	\$229,188,986
10/1/2032	\$229,188,986	\$19,885,368	\$19,732,167	\$229,035,785
10/1/2033	\$229,035,785	\$20,381,298	\$19,696,062	\$228,350,549
10/1/2034	\$228,350,549	\$20,780,166	\$19,616,442	\$227,186,825
10/1/2035	\$227,186,825	\$21,311,754	\$19,487,785	\$225,362,856
10/1/2036	\$225,362,856	\$21,646,692	\$19,308,556	\$223,024,720
10/1/2037	\$223,024,720	\$21,933,464	\$19,085,219	\$220,176,475
10/1/2038	\$220,176,475	\$22,141,458	\$18,819,517	\$216,854,534
10/1/2039	\$216,854,534	\$22,376,031	\$18,509,987	\$212,988,490
10/1/2040	\$212,988,490	\$22,637,976	\$18,150,255	\$208,500,769
10/1/2041	\$208,500,769	\$22,948,623	\$17,732,381	\$203,284,527
10/1/2042	\$203,284,527	\$23,011,078	\$17,260,109	\$197,533,558
10/1/2043	\$197,533,558	\$23,022,326	\$16,742,016	\$191,253,248
10/1/2044	\$191,253,248	\$23,007,773	\$16,177,443	\$184,422,917
10/1/2045	\$184,422,917	\$22,952,293	\$15,565,209	\$177,035,834
10/1/2046	\$177,035,834	\$22,867,522	\$14,904,187	\$169,072,498



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 9.00% and FRS 7/1/2021 Mortality

10/1/2047	\$169,072,498	\$22,744,404	\$14,193,027	\$160,521,121
10/1/2048	\$160,521,121	\$22,581,963	\$13,430,713	\$151,369,870
10/1/2049	\$151,369,870	\$22,374,816	\$12,616,422	\$141,611,476
10/1/2050	\$141,611,476	\$22,119,884	\$11,749,638	\$131,241,230
10/1/2051	\$131,241,230	\$21,815,529	\$10,830,012	\$120,255,713
10/1/2052	\$120,255,713	\$21,472,870	\$9,856,735	\$108,639,578
10/1/2053	\$108,639,578	\$21,083,580	\$8,828,801	\$96,384,799
10/1/2054	\$96,384,799	\$20,647,155	\$7,745,510	\$83,483,154
10/1/2055	\$83,483,154	\$20,164,232	\$6,606,093	\$69,925,015
10/1/2056	\$69,925,015	\$19,636,095	\$5,409,627	\$55,698,547
10/1/2057	\$55,698,547	\$19,064,791	\$4,154,954	\$40,788,710
10/1/2058	\$40,788,710	\$18,452,753	\$2,840,610	\$25,176,567
10/1/2059	\$25,176,567	\$17,802,698	\$1,464,770	\$8,838,639
10/1/2060	\$8,838,639	\$17,117,717		

Number of Years Expected Benefit Payments Sustained: 39.52

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
 ENDING SEPTEMBER 30, 2022
 Valuation Date: 10/1/2021

	ACTUAL			
	Interest Rate: 7.10% FRS 7/1/2021 Mortality	Interest Rate: 7.00% FRS 7/1/2021 Mortality	Interest Rate: 5.00% FRS 7/1/2021 Mortality	Interest Rate: 9.00% FRS 7/1/2021 Mortality
PENSION COST				
Normal Cost	4,770,866	4,872,499	7,631,550	3,267,226
Administrative Expenses	203,548	203,548	203,548	203,548
Payment Required to Amortize UAAL	7,265,354	7,505,937	12,904,235	3,067,949
Interest Adjustment	536,452	548,252	756,263	292,621
Total Required Contribution	12,776,220	13,130,236	21,495,596	6,831,344
TRC as % of Payroll	83.82% ¹	86.14% ²	141.03% ³	44.82% ⁴

¹ Only 60.29% of active and DROP members' payroll of \$21,191,097.

² Only 61.96% of active and DROP members' payroll of \$21,191,097.

³ Only 101.44% of active and DROP members' payroll of \$21,191,097.

⁴ Only 32.24% of active and DROP members' payroll of \$21,191,097.

