

CITY OF LIVE OAK  
FIREFIGHTERS' SUBSTITUTE PENSION TRUST FUND

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 Rule 60T-1.0035, Florida Administrative Code.

By:  Date: 10/23/2019

Douglas H. Lozen, EA, MAAA  
Enrolled Actuary #17-7778



When reviewing the following schedules, please note the following:

- 1) The purpose of producing this report is solely to satisfy the requirements set forth by Section 112.664, Florida Statutes, and is mandatory for every Florida public pension fund, excluding the Florida Retirement System (FRS).
- 2) None of the schedules shown have any impact on the funding requirements of the Plan. These schedules are for statutory compliance purposes only.
- 3) In the schedules that follow, the columns labeled “ACTUAL” represent the final recorded GASB 67/68 results. The columns labeled “HYPOTHETICAL” illustrate what the results would have been if different assumptions were used.
- 4) It is our opinion that the Plan’s actual assumptions utilized in the October 1, 2018 Actuarial Valuation Report, as adopted by the Board of Trustees, are reasonable individually and in the aggregate, and represent our best estimate of future Plan experience.
- 5) The “Number of Years Expected Benefit Payments Sustained” calculated in Section II: Asset Sustainability should not be interpreted as the number of years the Plan has left until it is insolvent. This calculation is required by 112.664, Florida Statutes, but the numeric result is irrelevant, since in its calculation we are to assume there will be no further contributions to the Fund. As long as the Actuarially Determined Contribution is made each year the Plan will never become insolvent.

**SCHEDULE OF CHANGES IN NET PENSION LIABILITY**  
**FISCAL YEAR SEPTEMBER 30, 2018**

|   | <u>ACTUAL</u>                    | <u>HYPOTHETICAL</u>              |
|---|----------------------------------|----------------------------------|
|   | 7.50%<br>RP-2000<br>Generational | 5.50%<br>RP-2000<br>Generational |
| <u>Total Pension Liability</u>                                |                                  |                                  |
| Service Cost  | -                                | -                                |
| Interest  | 141,363                          | 124,644                          |
| Changes of Benefit Terms                                      | -                                | -                                |
| Differences Between Expected and Actual Experience            | (21,441)                         | (20,608)                         |
| Changes of Assumptions  | -                                | -                                |
| Benefit Payments, Including Refunds of Employee Contributions | (183,822)                        | (183,822)                        |
| Net Change in Total Pension Liability                         | (63,900)                         | (79,786)                         |
| Total Pension Liability - Beginning                           | 1,976,751                        | 2,358,158                        |
| Total Pension Liability - Ending (a)                          | <u>\$ 1,912,851</u>              | <u>\$ 2,278,372</u>              |
| <u>Plan Fiduciary Net Position</u>                            |                                  |                                  |
| Contributions - Employer                                      | 57,179                           | 57,179                           |
| Net Investment Income   | 167,912                          | 167,912                          |
| Benefit Payments, Including Refunds of Employee Contributions | (183,822)                        | (183,822)                        |
| Administrative Expenses                                       | (17,008)                         | (17,008)                         |
| Net Change in Plan Fiduciary Net Position                     | 24,261                           | 24,261                           |
| Plan Fiduciary Net Position - Beginning                       | 1,735,684                        | 1,735,684                        |
| Plan Fiduciary Net Position - Ending (b)                      | <u>\$ 1,759,945</u>              | <u>\$ 1,759,945</u>              |
| Net Pension Liability - Ending (a) - (b)                      | <u>\$ 152,906</u>                | <u>\$ 518,427</u>                |

## PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 1  
Plan Assumptions: 7.50% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|----------------------------|----------------------------------|-------------------------------|---|
| 2018                       | 1,759,945                                  | -                             | 181,803                    | -                                | 125,178                       | 1,703,320                               |
| 2019                       | 1,703,320                                  | -                             | 180,459                    | -                                | 120,982                       | 1,643,843                               |
| 2020                       | 1,643,843                                  | -                             | 178,972                    | -                                | 116,577                       | 1,581,448                               |
| 2021                       | 1,581,448                                  | -                             | 177,328                    | -                                | 111,959                       | 1,516,079                               |
| 2022                       | 1,516,079                                  | -                             | 175,512                    | -                                | 107,124                       | 1,447,691                               |
| 2023                       | 1,447,691                                  | -                             | 173,508                    | -                                | 102,070                       | 1,376,253                               |
| 2024                       | 1,376,253                                  | -                             | 171,303                    | -                                | 96,795                        | 1,301,745                               |
| 2025                       | 1,301,745                                  | -                             | 168,880                    | -                                | 91,298                        | 1,224,163                               |
| 2026                       | 1,224,163                                  | -                             | 166,221                    | -                                | 85,579                        | 1,143,521                               |
| 2027                       | 1,143,521                                  | -                             | 163,314                    | -                                | 79,640                        | 1,059,847                               |
| 2028                       | 1,059,847                                  | -                             | 160,142                    | -                                | 73,483                        | 973,188                                 |
| 2029                       | 973,188                                    | -                             | 156,691                    | -                                | 67,113                        | 883,610                                 |
| 2030                       | 883,610                                    | -                             | 152,959                    | -                                | 60,535                        | 791,186                                 |
| 2031                       | 791,186                                    | -                             | 148,936                    | -                                | 53,754                        | 696,004                                 |
| 2032                       | 696,004                                    | -                             | 144,614                    | -                                | 46,777                        | 598,167                                 |
| 2033                       | 598,167                                    | -                             | 140,013                    | -                                | 39,612                        | 497,766                                 |
| 2034                       | 497,766                                    | -                             | 135,144                    | -                                | 32,265                        | 394,887                                 |
| 2035                       | 394,887                                    | -                             | 130,027                    | -                                | 24,741                        | 289,601                                 |
| 2036                       | 289,601                                    | -                             | 124,695                    | -                                | 17,044                        | 181,950                                 |
| 2037                       | 181,950                                    | -                             | 119,148                    | -                                | 9,178                         | 71,980                                  |
| 2038                       | 71,980                                     | -                             | 113,408                    | -                                | -                             | -                                       |

Number of Years Expected Benefit Payments Sustained: 20.63

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.50% interest.

**It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.**

## PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 2  
Hypothetical Assumptions: 5.50% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|----------------------------|----------------------------------|-------------------------------|---|
| 2018                       | 1,759,945                                  | -                             | 181,803                    | -                                | 91,797                        | 1,669,939                               |
| 2019                       | 1,669,939                                  | -                             | 180,459                    | -                                | 86,884                        | 1,576,364                               |
| 2020                       | 1,576,364                                  | -                             | 178,972                    | -                                | 81,778                        | 1,479,170                               |
| 2021                       | 1,479,170                                  | -                             | 177,328                    | -                                | 76,478                        | 1,378,320                               |
| 2022                       | 1,378,320                                  | -                             | 175,512                    | -                                | 70,981                        | 1,273,789                               |
| 2023                       | 1,273,789                                  | -                             | 173,508                    | -                                | 65,287                        | 1,165,568                               |
| 2024                       | 1,165,568                                  | -                             | 171,303                    | -                                | 59,395                        | 1,053,660                               |
| 2025                       | 1,053,660                                  | -                             | 168,880                    | -                                | 53,307                        | 938,087                                 |
| 2026                       | 938,087                                    | -                             | 166,221                    | -                                | 47,024                        | 818,890                                 |
| 2027                       | 818,890                                    | -                             | 163,314                    | -                                | 40,548                        | 696,124                                 |
| 2028                       | 696,124                                    | -                             | 160,142                    | -                                | 33,883                        | 569,865                                 |
| 2029                       | 569,865                                    | -                             | 156,691                    | -                                | 27,034                        | 440,208                                 |
| 2030                       | 440,208                                    | -                             | 152,959                    | -                                | 20,005                        | 307,254                                 |
| 2031                       | 307,254                                    | -                             | 148,936                    | -                                | 12,803                        | 171,121                                 |
| 2032                       | 171,121                                    | -                             | 144,614                    | -                                | 5,435                         | 31,942                                  |
| 2033                       | 31,942                                     | -                             | 140,013                    | -                                | -                             | -                                       |

Number of Years Expected Benefit Payments Sustained: 15.23

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 5.50% interest.

**It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.**

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR  
ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2016

|  | ACTUAL       | HYPOTHETICAL |
|--|--------------|--------------|
|  | 7.50%        | 5.50%        |
|  | RP-2000      | RP-2000      |
|  | Generational | Generational |
|  |              |              |
| Minimum Required Contribution (Fixed \$) | \$53,782     | \$82,419     |

**ASSETS**

|                 |           |           |
|-----------------|-----------|-----------|
| Actuarial Value | 1,759,945 | 1,759,945 |
| Market Value    | 1,759,945 | 1,759,945 |

**LIABILITIES**

|   |           |           |
|---|-----------|-----------|
| Present Value of Benefits                               |           |           |
| Active Members  |           |           |
| Retirement Benefits                                     | 0         | 0         |
| Disability Benefits                                     | 0         | 0         |
| Death Benefits  | 0         | 0         |
| Vested Benefits   | 0         | 0         |
| Refund of Contributions                                 | 0         | 0         |
| Service Retirees  | 1,694,136 | 2,029,334 |
| Beneficiaries   | 233,797   | 266,871   |
| Disability Retirees                                     | 0         | 0         |
| Terminated Vested                                       | 0         | 0         |
| Total:  | 1,927,933 | 2,296,205 |
| Present Value of Future Salaries                        | N/A       | N/A       |
| Present Value of Future Lifetimes                       | 71.24     | 84.17     |
| Total Normal Cost                                       | 16,506    | 44,598    |
| Present Value of Future Normal Costs (Entry Age Normal) | 0         | 0         |
| Total Actuarial Accrued Liability (EAN)                 | 1,927,933 | 2,296,205 |
| Unfunded Actuarial Accrued Liability (UAAL)             | N/A       | N/A       |

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR  
ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2016

|  | ACTUAL       | HYPOTHETICAL |
|--|--------------|--------------|
|  | 7.50%        | 5.50%        |
|  | RP-2000      | RP-2000      |
|  | Generational | Generational |
|  |              |              |
| <b><u>PENSION COST</u></b>                     |              |              |
| Normal Cost <sup>1</sup>                       | 17,744       | 47,051       |
| Administrative Expenses <sup>1</sup>           | 36,038       | 35,368       |
| Payment Required To Amortize UAAL <sup>1</sup> | 0            | 0            |
| Minimum Required Contribution                  | \$53,782     | \$82,419     |

<sup>1</sup> Interest adjustment assumes a City lump sum deposit on each September 30 following the valuation date.