

The experience and dedication you deserve



Pensacola General Pension and Retirement Fund

Actuarial Valuation Report as of September 30, 2016





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The experience and dedication you deserve

January 27, 2017

The City of Pensacola and The Board of Trustees Pensacola General Pension and Retirement Fund Pensacola, FL

Dear Board of Trustees:

This report presents the results of the September 30, 2016 actuarial valuation of the Pensacola General Pension and Retirement Fund. This valuation is used to determine the contributions for the City's fiscal year beginning October 1, 2017. The first valuation presented by Cavanaugh Macdonald Consulting, LLC was as of September 30, 2005. All previous years' results presented in the report were reported by the previous actuarial firm.

The City contribution requirements for the fiscal years beginning October 1, 2017 and October 1, 2018 are summarized below. The contribution amounts assume bi-weekly payments.

Required City contribution for plan year beginning October 1, 2017 and October 1, 2018

Pension Benefits \$6,502,878

Retiree Healthcare Benefits (54,486)

Total \$6,448,392

The assumptions used in the valuation are outlined in Table X. Provisions of the Fund are set forth in Table XI. Information required to be disclosed by the State of Florida under Chapter 112 is presented in Table Va. The projected unfunded actuarial accrued liability (UAAL) is shown in Table Vb. Tables VIa, VIb and VIc provide information about the Fund's assets. Tables VIIa though VIIh provide accounting information required under Governmental Accounting Standards Board (GASB) Statement No. 67, while Tables VIIIa through VIIIc provide information about the membership data. Finally, Table IX provides detailed historical data.



The actuarial computations presented in this report are to be used for the following purposes:

- 1) Determining the contributions necessary to fund the Plan. These calculations have been made on a basis consistent with our understanding of the Plan's funding requirements and goals.
- 2) Providing the information required to be disclosed by the State of Florida under Chapter 112.
- 3) Providing accounting information required under Governmental Accounting Standards Board (GASB) Statement No. 67.

Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. The interest rate used for determining liabilities is based on the expected return on assets. Therefore, liability amounts in this report cannot be used to assess a settlement of the obligation.

Certification

This actuarial valuation and/or cost determination was 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, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

This is to certify that the independent consulting actuary is a Member of the American Academy of Actuaries, meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the Plan and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the Plan.

Future actuarial results may differ significantly from the current results 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

Sincerely yours,

Todd B. Green, ASA, FCA, MAAA Principal and Consulting Actuary

Todal B. 6

Jose I. Fernandez, ASA, FCA, MAAA, EA Principal & Consulting Actuary

Enrollment Number 14-4461

TBG/JIF:jnw

Comments

1. Changes in Benefit Provisions, Actuarial Assumptions and Methods

Since the previous valuation, the following assumption changes have been made:

- ➤ The assumed rate of return was lowered from 7.80% to 7.60% since the previous valuation. The assumed rate of return will be lowered by 0.2% to in 5 biennial steps for each valuation beginning September 30, 2014.
- The mortality assumption was updated to comply with Florida Statute 112.63(1)(f).

The assumption changes are reflected in the valuation and increased the Unfunded Actuarial Accrued Liability (UAAL) by \$8.1 million.

2. Health Insurance Premium Assistance program

The valuation of the Health Insurance Premium Assistance Program is shown separately from that of the pension benefits being provided from the Fund. The results that follow are labeled to indicate whether they apply to pension benefits, retiree healthcare benefits or both.





| | | Sep | As of tember 30, 2016 | Sept | As of tember 30, 2014 |
|----|---|-----|---------------------------------------|------|-----------------------|
| 1. | Number of Members | | , , , , , , , , , , , , , , , , , , , | | , |
| | a. Active Members: | | 136 | | 159 |
| | b. Deferred Vested Members: | | 60 | | 68 |
| | c. DROP Members: | | 27 | | 37 |
| | d. Retired Members: | | | | |
| | i. Non-disabled | | 426 | | 421 |
| | ii. Disabled | | 37 | | 41 |
| | iii. Beneficiaries | _ | 148 | | 148 |
| | iv. Subtotal | = | 611 | = | 610 |
| | e. Total Members: | | 834 | | 874 |
| 2. | Total Annual Compensation | \$ | 6,347,558 | \$ | 6,901,570 |
| 3. | Total Projected Payroll | \$ | 6,347,558 | \$ | 6,901,570 |
| 4. | Total Retired Member Benefits | \$ | 13,240,153 | \$ | 13,201,852 |
| 5. | Annual Cost (Pension and Retiree Healthcare combined) | | | | |
| | a. Present Value of Future Benefits | \$ | 183,540,758 | \$ | 181,912,711 |
| | b. Present Value of Future Normal Cost | | (4,978,150) | | (5,786,847) |
| | City Portion | | 2,800,381 | | 3,067,427 |
| | Member Portion | | 2,177,769 | | 2,719,420 |
| | c. Actuarial Accrued Liability (AAL) | | 178,562,608 | | 176,125,864 |
| | d. Actuarial Value of Assets | | (137,831,800) | | (126,847,720) |
| | e. Unfunded Accrued Liability | \$ | 40,730,808 | \$ | 49,278,144 |
| 6. | Actuarially Determined Contribution (Payable Bi-Weekly) | | | | |
| | a. Normal Cost | \$ | 868,174 | \$ | 891,407 |
| | b. Payment to Amortize Unfunded Liability | | 5,595,199 | | 6,166,347 |
| | c. Administrative Expenses | | 102,605 | | 103,765 |
| | d. Interest Adjustment | | 253,017 | | 283,055 |
| | e. Total | \$ | 6,818,995 | \$ | 7,444,574 |
| | f. Expected Member Contributions | \$ | 370,603 | \$ | 379,586 |
| | g. Estimated City Contributions | | 6,448,392 | | 7,064,988 |
| | h. Total | \$ | 6,818,995 | \$ | 7,444,574 |





| | | <u>Septe</u> | As of mber 30, 2016 | <u>Sept</u> | As of ember 30, 2014 |
|-----|---|--------------|---------------------|-------------|----------------------|
| | tuarially Determined Contribution (Payable as | | | | |
| a I | Lump Sum on October 1st) | | | | |
| a. | Normal Cost | \$ | 868,174 | \$ | 891,407 |
| b. | Payment to Amortize Unfunded Liability | | 5,595,199 | | 6,166,347 |
| c. | Administrative Expenses | | 102,605 | | 103,765 |
| e. | Total | \$ | 6,565,978 | \$ | 7,161,519 |
| f. | Expected Member Contributions | \$ | 370,603 | \$ | 379,586 |
| g. | Estimated City Contributions | | 6,195,375 | | 6,781,933 |
| h. | Total | \$ | 6,565,978 | \$ | 7,161,519 |



Unfunded Actuarial Accrued Liability (UAAL) for Pension Benefits

Table IIa

| 1. | Actual Unfunded Accrued Liability as of 9/30/2014 | \$ | 49,369,045 | | | |
|----|--|-----|-------------|--|--|--|
| 2. | Expected Change in Unfunded Liability During the 2014/2015 & 2015/2016 Plan Years: | | | | | |
| | a. Due to Normal Cost | | 1,609,138 | | | |
| | b. Due to Contributions | | 14,114,552 | | | |
| | c. Due to Interest | | 7,079,144 | | | |
| | d. Total Expected Change = $(a b. + c.)$ | | (5,426,270) | | | |
| 3. | Expected Unfunded Accrued Liability as of 9/30/2016 | \$ | 43,942,775 | | | |
| 4. | Change in Unfunded Liability During the 2014/2015 & 2015/2016 Plan Years | Due | to: | | | |
| | a. Method changes | \$ | 0 | | | |
| | b. Assumption changes | | 8,020,546 | | | |
| | c. Plan amendments | | 0 | | | |
| | d. Total change | \$ | 8,020,546 | | | |
| 5. | Actual Unfunded Accrued Liability as of 9/30/2016 | \$ | 41,223,288 | | | |
| 6. | Actuarial Gain/(Loss) as of 9/30/2016 | \$ | 10,740,033 | | | |



Unfunded Actuarial Accrued Liability (UAAL) for Retiree Healthcare Benefits Table IIb

| 1. | Actual Unfunded Accrued Liability as of 9/30/2014 | \$ | (90,901) |
|----|--|----------|--|
| 2. | Expected Change in Unfunded Liability During the 2014/2015 & 2015/2016 I | Plan Y | Years: |
| | a. Due to Normal Cost b. Due to Contributions c. Due to Interest d. Total Expected Change = (a b. + c.) | | 30,057 67,630 (18,855) (56,428) |
| 3. | Expected Unfunded Accrued Liability as of 9/30/2016 | \$ | (147,329) |
| 4. | Change in Unfunded Liability During the 2014/2015 & 2015/2016 Plan Years a. Method changes b. Assumption changes c. Plan amendments | \$ | 0 68,402 0 |
| 5. | d. Total change Actual Unfunded Accrued Liability as of 9/30/2016 | \$ \$ | 68,402 (492,480) |
| 6. | Actuarial Gain/(Loss) as of 9/30/2016 | \$ | 413,553 |





| | | | For the Plan Years 2017/2018 & 2018/2019 | For the Plan Years 2015/2016 & 2016/2017 |
|----|----------|--|--|--|
| A. | Nu | mber of Plan Participants as of September 30 | | |
| | ٠. | Retirees and beneficiaries receiving benefits DROP members | 611 27 | 610 37 |
| | c. d. | Terminated plan participants entitled to but not yet receiving benefits Active plan participants | 60 136 | 68 159 |
| | e. | Total | 834 | 874 |

B. Development of Actuarially Determined Employer Contribution (ADEC) Payable on a bi-weekly basis

a. Employer normal cost:

| | i. Total normal cost (with Interest and Expenses)ii. Expected employee contribution | \$ 1,210,630 370,603 | \$ 1,262,528 379,586 |
|----|--|----------------------------|----------------------------|
| | iii. Employer normal cost | \$ 840,027 | \$ 882,942 |
| b. | Amortization of UAAL: | | |
| | i. PV of future benefits | \$ 181,743,895 | \$ 179,910,089 |
| | ii. PV of future employer normal costs | (2,722,184) | (2,976,647) |
| | iii. PV of future employee contributions | (2,177,769) | (2,719,420) |
| | iv. Actuarial accrued liability (AAL) | 176,843,942 | 174,214,022 |
| | v. Actuarial value of assets | (135,620,654) | (124,844,977) |
| | vi. Unfunded AAL (UAAL) | 41,223,288 | 49,369,045 |
| | vii. Amortization of UAAL | \$ 5,662,851 | \$ 6,177,724 |
| c. | ADEC | \$ 6,502,878 | \$ 7,060,666 |
| | (Item B.a.iii. plus item B.b.vii.) | | |



C. Schedule of Funding Progress (\$ in thousands)

| Actuarial Valuation Date | | (1) Actuarial Value of Assets | (2) Actuarial Accrued Liability (AAL) | (3) Unfunded AAL (UAAL) (2) – (1) | (4) Funded Ratio (1) ÷ (2) | (5) Covered Payroll | (6) UAAL as % of Covered Payroll (3) ÷ (5) |
|--------------------------------|-----|--|---|---|-------------------------------------|---------------------------|--|
| 9/30/05 | | \$103,504 | \$153,413 | \$49,909 | 67.5% | \$16,904 | 295.2% |
| 9/30/06 | | 105,548 | 152,863 | 47,315 | 69.0 | 17,598 | 268.9 |
| 9/30/07 | (a) | 112,045 | 159,180 | 47,135 | 70.4 | 14,807 | 318.3 |
| 9/30/08 | (a) | 114,133 | 163,922 | 49,789 | 69.6 | 13,546 | 367.6 |
| 9/30/09 | | 115,693 | 166,687 | 50,994 | 69.4 | 12,091 | 421.8 |
| 9/30/10 | (b) | 117,344 | 171,605 | 54,261 | 68.4 | 11,280 | 481.0 |
| 9/30/12 | (a) | 113,488 | 170,093 | 56,605 | 66.7 | 7,835 | 722.5 |
| 9/30/14 | (b) | 124,845 | 174,214 | 49,369 | 71.7 | 6,902 | 715.3 |
| 9/30/16 | (b) | 135,621 | 176,844 | 41,223 | 76.7 | 6,348 | 649.4 |

⁽a) Change in benefit provisions

⁽b) Change in actuarial assumptions

Table IIIa



Supplemental Disclosures (Pension)

Additional Information D.

Valuation date September 30, 2016

Actuarial cost method Entry Age Normal

Amortization method Closed level dollar

Remaining amortization period 11 years

Asset valuation method 5-year smoothed market

Actuarial assumptions:

Investment rate of return* 7.60%

Projected salary increases* 4.50% - 9.50%

1.50% per year for retirements before October 1, Cost-of-living adjustments

2012; 1.00% for retirements on or after October 1,

2012

*Includes inflation at: 3.00%



| 4 N | umber of Plan Participants as of September 30 | For the Plan Years 2017/2018 & 2018/2019 | For the Plan Years 2015/2016 & 2016/2017 |
|----------|---|--|--|
| a. b. | Retirees and beneficiaries receiving benefits | 611 27 | 610 37 |
| d e. | not yet receiving benefits | 60 136 834 | 68 159 874 |

B. Development of Actuarially Determined Employer Contribution (ADEC) Payable on a bi-weekly basis

| a. | Employer normal cost: | | |
|----|---|-----------------|-----------------|
| | i. Total normal cost (with Interest and Expenses) | \$ 13,166 | \$ 15,699 |
| | ii. Expected employee contribution | 0 | 0 |
| | iii. Employer normal cost | \$ 13,166 | \$ 15,699 |
| b. | Amortization of UAAL: | | |
| | i. PV of future benefits | \$ 1,796,863 | \$ 2,002,622 |
| | ii. PV of future employer normal costs | (78,197) | (90,780) |
| | iii. PV of future employee contributions | 0 | 0 |
| | iv. Actuarial accrued liability (AAL) | 1,718,666 | 1,911,842 |
| | v. Actuarial value of assets | (2,211,146) | (2,002,743) |
| | vi. Unfunded AAL (UAAL) | (492,480) | (90,901) |
| | vii. Amortization of UAAL | \$ (67,652) | \$ (11,377) |
| c. | ADEC | \$ (54,486) | \$ 4,322 |
| | (Item B.a.iii. plus item B.b.vii.) | | |



C. Schedule of Funding Progress

| Actuarial Valuation Date | (1) Actuarial Value of Assets | (2) Actuarial Accrued Liability (AAL) | (3) Unfunded AAL (UAAL) (2) – (1) | (4) Funded Ratio (1) ÷ (2) | (5) Covered Payroll | (6) UAAL as % of Covered Payroll (3) ÷ (5) |
|--------------------------------|--|---|---|-------------------------------------|---------------------------|--|
| 9/30/05 | \$930,563 | \$4,499,586 | \$3,569,023 | 20.7% | \$16,904,096 | 21.1% |
| 9/30/06 | 1,113,914 | 4,553,791 | 3,439,877 | 24.5 | 17,597,916 | 19.5 |
| 9/30/07 | 1,327,015 | 4,504,338 | 3,177,323 | 29.5 | 14,806,933 | 21.5 |
| 9/30/08 | 1,546,435 | 2,389,391 | 842,956 | 64.7 | 13,546,116 | 6.2 |
| 9/30/09 | 1,850,821 | 2,365,471 | 514,650 | 78.2 | 12,090,613 | 4.3 |
| 9/30/10 | 1,854,119 | 2,409,662 | 555,543 | 76.9 | 11,280,207 | 4.9 |
| 9/30/12 | 1,766,345 | 2,212,028 | 445,683 | 79.9 | 7,834,617 | 5.7 |
| 9/30/14 | 2,002,743 | 1,911,842 | (90,901) | 104.8 | 6,901,570 | (1.4) |
| 9/30/16 | 2,211,146 | 1,718,666 | (492,480) | 128.7 | 6,347,558 | (7.8) |



D. Additional Information

Valuation date September 30, 2016

Amortization method Closed level dollar

Remaining amortization period 11 years

Asset valuation method 5-year smoothed market

Actuarial assumptions:

Investment rate of return* 7.60%

Projected salary increases* 4.50% - 9.50%

Cost-of-living adjustments N/A

*Includes inflation at: 3.00%



Shown below is the development of the Total Present value of Accrued Benefit for the Plan. The calculations were performed in accordance with Chapter 2011-216 Laws of Florida (SB 1128) which requires the calculation of the present value of accrued benefits be calculated using the Florida Retirement System's assumed rate of return of 7.60% in order to promote comparability of actuarial data between local plans.

1. Actuarial Present Value of Accrued Benefits

| | As of | As of |
|---------------------------------------|---------------------------|---------------------------|
| | September 30, 2014 | September 30, 2016 |
| a. Vested Accrued Benefits: | | |
| i. Inactive members and beneficiaries | \$153,648,499 | \$153,727,645 |
| ii. Active members | \$21,360,888 | \$23,116,297 |
| b. Total Benefits | \$175,009,387 | \$176,843,942 |
| c. Market Value of Assets | \$136,755,930 | \$132,701,587 |
| d. Percentage Funded | 78.1% | 75.0% |

2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

a. Actuarial Present Value as of September 30, 2014 (7.75% Interest): \$175,009,387

b. Increase (Decrease) During 2014/2015 & 2015/2016 Plan Years Attributable to:

| vi. Net increase (decrease) | \$1,834,555 |
|--|----------------|
| v. Changes in actuarial assumptions or methods | \$8,020,546 |
| iv. Plan amendments | \$0 |
| iii. Benefits paid | (\$26,889,337) |
| ii. Benefits accumulated/experience | (\$5,349,959) |
| i. Interest | \$26,053,305 |

c. Actuarial Present Value as of September 30, 2016 (7.6% Interest): \$176,843,942

- a. Plan provisions reflected in the accrued benefits (see Table X)
- b. Actuarial assumptions and methods used to determine present values (see Table IX)

Present Value of Accrued Benefits (Pension - Plan Assumptions)

Table IVa

Shown below is the development of the Total Present value of Accrued Benefit for the Plan. The calculations were performed using the Plan's discount rate of 7.60%.

1. Actuarial Present Value of Accrued Benefits

| | As of | As of |
|-----------------------------------|---------------------------|---------------------------|
| | September 30, 2014 | September 30, 2016 |
| a. Vested Accrued Benefits: | <u> </u> | |
| i. Inactive members and beneficia | aries \$153,000,429 | \$153,727,645 |
| ii. Active members | \$21,213,594 | \$23,116,297 |
| b. Total Benefits | \$174,214,023 | \$176,843,942 |
| c. Market Value of Assets | \$136,755,930 | \$132,701,587 |
| d. Percentage Funded | 78.5% | 75.0% |

2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

a. Actuarial Present Value as of September 30, 2014 (7.8% Interest): \$174,214,023

b. Increase (Decrease) During 2014/2015 & 2015/2016 Plan Years Attributable to:

| i. Interest | \$26,099,039 |
|--|----------------|
| ii. Benefits accumulated/experience | (\$4,600,329) |
| iii. Benefits paid | (\$26,889,337) |
| iv. Plan amendments | \$0 |
| v. Changes in actuarial assumptions or methods | \$8,020,546 |
| vi. Net increase (decrease) | \$2,629,919 |
| | |

c. Actuarial Present Value as of September 30, 2016 (7.6% Interest): \$176,843,942

- a. Plan provisions reflected in the accrued benefits (see Table X)
- b. Actuarial assumptions and methods used to determine present values (see Table IX)



Shown below is the development of the Total Present value of Accrued Benefit for the Plan. The calculations were performed in accordance with Chapter 2011-216 Laws of Florida (SB 1128) which requires the calculation of the present value of accrued benefits be calculated using the Florida Retirement System's assumed rate of return of 7.75% in order to promote comparability of actuarial data between local plans.

1. Actuarial Present Value of Accrued Benefits

| | As of | As of |
|---------------------------------------|---------------------------|---------------------------|
| | September 30, 2014 | September 30, 2016 |
| a. Vested Accrued Benefits: | - | |
| i. Inactive members and beneficiaries | \$1,685,338 | \$1,477,357 |
| ii. Active members | \$234,657 | \$241,309 |
| b. Total Benefits | \$1,919,995 | \$1,718,666 |
| c. Market Value of Assets | \$2,193,817 | \$2,163,554 |
| d. Percentage Funded | 114.3% | 125.9% |

2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

a. Actuarial Present Value as of September 30, 2014 (7.75% Interest): \$1,919,995

b. Increase (Decrease) During 2014/2015 & 2015/2016 Plan Years Attributable to:

| vi. Net increase (decrease) | (\$201,329) |
|--|-------------|
| v. Changes in actuarial assumptions or methods | \$68,402 |
| iv. Plan amendments | \$0 |
| iii. Benefits paid | (\$274,680) |
| ii. Benefits accumulated/experience | (\$282,482) |
| 1. Interest | \$287,431 |

c. Actuarial Present Value as of September 30, 2016 (7.6% Interest): \$1,718,666

- a. Plan provisions reflected in the accrued benefits (see Table X)
- b. Actuarial assumptions and methods used to determine present values (see Table IX)



Present Value of Accrued Benefits (Retiree Healthcare - Plan Assumptions) Table IVb

Shown below is the development of the Total Present value of Accrued Benefit for the Plan. The calculations were performed using the Plan's discount rate of 7.80%.

1. Actuarial Present Value of Accrued Benefits

| | As of | As of |
|-------------------------------------|---------------------------|---------------------------|
| | September 30, 2014 | September 30, 2016 |
| a. Vested Accrued Benefits: | | |
| i. Inactive members and beneficiari | ies \$1,678,480 | \$1,477,357 |
| ii. Active members | \$233,361 | \$241,309 |
| b. Total Benefits | \$1,911,841 | \$1,718,666 |
| c. Market Value of Assets | \$2,193,817 | \$2,163,554 |
| d. Percentage Funded | 114.7% | 125.9% |

2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

a. Actuarial Present Value as of September 30, 2014 (7.8% Interest): \$1,911,841

b. Increase (Decrease) During 2014/2015 & 2015/2016 Plan Years Attributable to:

| i. Interest | \$288,036 |
|--|-------------|
| ii. Benefits accumulated/experience | (\$274,933) |
| iii. Benefits paid | (\$274,680) |
| iv. Plan amendments | \$0 |
| v. Changes in actuarial assumptions or methods | \$68,402 |
| vi. Net increase (decrease) | (\$193,175) |
| | |

c. Actuarial Present Value as of September 30, 2016 (7.6% Interest): \$1,718,666

- a. Plan provisions reflected in the accrued benefits (see Table X)
- b. Actuarial assumptions and methods used to determine present values (see Table IX)





| Paı | rtici | pant Data | tember 30, 2016 After Imption Change | tember 30, 2016 Prior to Imption Change | Sept | ember 30, 2014 |
|-----|----------|---|--|---|------|----------------|
| 1 | ٨٥ | tive Members | | | | |
| 1. | a. | Number | 136 | 136 | | 159 |
| | a. b. | Valuation payroll | \$ 6,347,558 | \$ 6,347,558 | \$ | 6,901,570 |
| | c. | Estimated payroll for next fiscal year | \$ 6,347,558 | \$ 6,347,558 | \$ | 6,901,570 |
| 2. | Re | tired Members | | | | |
| | a. | Number on service retirement | 426 | 426 | | 421 |
| | b. | Annual benefits | \$ 10,259,523 | \$ 10,259,523 | \$ | 10,035,673 |
| | c. | Number in DROP | 27 | 27 | | 37 |
| | d. | Annual benefits | \$ 633,388 | \$ 633,388 | \$ | 895,539 |
| | e. | Number on disability retirement | 37 | 37 | | 41 |
| | f. | Annual benefits | \$ 357,718 | \$ 357,718 | \$ | 379,892 |
| | g. | Number of beneficiaries of deceased members | 148 | 148 | | 148 |
| | h. | Annual benefits | \$ 1,989,524 | \$ 1,989,524 | \$ | 1,890,748 |
| | i. | Number of deferred vested members | 60 | 60 | | 68 |
| | j. | Annual benefits | \$ 749,710 | \$ 749,710 | \$ | 928,083 |
| Ass | sets | | | | | |
| 3. | a. | Assets for valuation purposes | \$ 137,831,800 | \$ 137,831,800 | \$ | 126,847,720 |
| | b. | Market value of assets | \$ 134,865,141 | \$ 134,865,141 | \$ | 138,949,747 |





| Li | abilities | | | After change | | tember 30, 2016 Prior to Imption Change | <u>Sept</u> | ember 30, 2014 |
|---------------------------------|---|---|----------|--|-----------------|--|-----------------|--|
| 4. | a. Retired members andi. Present retirees of allowancesii. Present beneficia | on service retirement drawing aries drawing allowances on disability retirement now | \$ | 116,777,722 17,837,591 3,615,362 138,230,675 | \$ | 112,495,013 16,042,145 3,711,153 132,248,311 | \$ | 112,781,584 15,861,912 3,981,183 132,624,679 |
| | b. DROP members | | \$ | 11,103,634 | \$ | 10,829,338 | \$ | 14,788,934 |
| | c. Former active membd. Present active memb | ers eligible for deferred benefits ers: | \$ | 5,870,693 | \$ | 5,562,880 | \$ | 7,265,296 |
| | i. Service retiremeii. Deferred vestediii. Disability benefiiv. Death benefitsv. Return of contribvi. Subtotal | benefits ts | \$ | 26,082,216 1,725,289 125,153 403,098 0 28,335,756 | \$ <u>\$</u> | 24,471,639 1,604,802 149,436 283,145 0 26,509,022 | \$ <u>\$</u> | 24,683,578 2,027,864 202,874 319,486 0 27,233,802 |
| | - | f all prospective benefits payable | \$ | 183,540,758 | \$ | 175,149,551 | \$ | 181,912,711 |
| 5.6. | Present Value of Accrued Unfunded Actuarial Acc | d Benefits under GASB 25 & 43 rued Liabilities | \$ \$ | 178,562,608 40,730,808 | \$ \$ | 170,473,660 32,641,860 | \$ \$ | 176,125,864 49,278,144 |





| Contributions | | September 30, 2 After Assumption Cha | | ember 30, 2016 Prior to mption Change | <u>Septe</u> | ember 30, 2014 |
|--|-------------------------------------|--|------|---------------------------------------|--------------|----------------|
| 7. Normal Contribution Rate: | | | | | | |
| a. From City (including into | erest) | 12.66% | | 12.31% | | 13.02% |
| b. From Members | | 5.50% | | 5.50% | | 5.50% |
| 8. Required City Contributions (including interest): | as % of Payroll | | | | | |
| a. Normal | | 12.66% | | 12.31% | | 13.02% |
| b. Unfunded Actuarial Acc | rued Liabilities | 83.04% | | 71.34% | | <u>89.35%</u> |
| c. Total | | 95.70% | | 83.65% | | 102.37% |
| 9. Required City Contributions | (including interest) Payable on a b | oi-weekly basis: | | | | |
| a. Normal | | \$ 853,19 | 3 \$ | 781,435 | \$ | 898,641 |
| b. Unfunded Actuarial Acc | rued Liabilities | 5,595,19 | 9 | 4,528,087 | | 6,166,347 |
| c. Total | | \$ 6,448,39 | 2 \$ | 5,309,522 | \$ | 7,064,988 |
| 10. Percentage of Compensation | to be Contributed by Members | 5.50% | | 5.50% | | 5.50% |





| | ember 30, 2016 After mption Change | ember 30, 2016 Prior to mption Change | Septe | ember 30, 2014 |
|--|--|---|-------|----------------|
| 11. Present Value of Active Members: | | | | |
| a. Future salaries | \$ 39,595,796 | \$ 40,832,270 | \$ | 49,444,000 |
| b. Future contributions | \$ 2,177,769 | \$ 2,245,775 | \$ | 2,719,420 |
| 12. Prior Fiscal Year's Contribution (cash basis): | | | | |
| a. Required City (Payable in a Lump Sum) | \$ 6,781,933 | \$ 6,781,933 | \$ | 7,210,281 |
| b. Actual City | 6,788,559 | 6,788,559 | | 7,212,182 |
| c. Required member | 379,586 | 379,586 | | 430,904 |
| d. Actual member | 360,693 | 360,693 | | 388,789 |
| 13. Accumulated Member Contributions | \$ 4,557,641 | \$ 4,557,641 | \$ | 4,429,923 |

The information presented in Table Va is for both pension benefits and retiree healthcare benefits combined.



Pension Benefits

| Balance as of October 1 | UAAL Beginning of Year | Amortization Payment | UAAL End of Year |
|-------------------------|---------------------------|-------------------------|---------------------|
| 2016 | \$41,223,288 | \$5,662,851 | \$38,693,406 |
| 2017 | 38,693,406 | 5,662,851 | 35,971,254 |
| 2018 | 35,971,254 | 5,662,851 | 33,042,218 |
| 2019 | 33,042,218 | 5,662,851 | 29,890,575 |
| 2020 | 29,890,575 | 5,662,851 | 26,499,407 |
| 2021 | 26,499,407 | 5,662,851 | 22,850,511 |
| 2022 | 22,850,511 | 5,662,851 | 18,924,298 |
| 2023 | 18,924,298 | 5,662,851 | 14,699,694 |
| 2024 | 14,699,694 | 5,662,851 | 10,154,019 |
| 2025 | 10,154,019 | 5,662,851 | 5,262,873 |
| 2026 | 5,262,873 | 5,662,851 | 0 |

Retiree Healthcare Benefits

| Balance as of October 1 | UAAL Beginning of Year | Amortization Payment | UAAL End of Year |
|-------------------------|---------------------------|-------------------------|---------------------|
| 2016 | (492,480) | (67,652) | (462,256) |
| 2017 | (462,256) | (67,652) | (429,736) |
| 2018 | (429,736) | (67,652) | (394,744) |
| 2019 | (394,744) | (67,652) | (357,092) |
| 2020 | (357,092) | (67,652) | (316,579) |
| 2021 | (316,579) | (67,652) | (272,987) |
| 2022 | (272,987) | (67,652) | (226,082) |
| 2023 | (226,082) | (67,652) | (175,612) |
| 2024 | (175,612) | (67,652) | (121,306) |
| 2025 | (121,306) | (67,652) | (62,874) |
| 2026 | (62,874) | (67,652) | 0 |



Asset Reconciliation Table VIa

Revenues and Expenditures

| | | Septe | As of ember 30, 2016 | <u>Septe</u> | As of ember 30, 2014 |
|----|---|-------|----------------------|--------------|----------------------|
| Re | venues: | | | | |
| a. | Member contributions | \$ | 360,693 | \$ | 388,789 |
| b. | City contributions | | 6,788,559 | | 6,658,185 |
| c. | City contributions – Other | | 0 | | |
| d. | Investment Income and Realized Gains | | 3,381,144 | | 3,972,575 |
| e. | Increase in unrealized appreciation | | 8,639,194 | | 11,832,103 |
| f. | Other revenue | | 3,314 | | 9,513 |
| g. | Total revenues | \$ | 19,172,904 | \$ | 22,861,165 |
| Ex | penditures: | | | | |
| a. | Refunds of member contributions | \$ | 82,082 | \$ | 82,048 |
| b. | Benefits payments | | 12,362,685 | | 11,937,368 |
| c. | Payment from DROP accounts | | 1,406,115 | | 1,727,186 |
| d. | Health care subsidy payments | | 133,280 | | 149,688 |
| e. | Administrative expenses | | 6,245 | | 5,808 |
| f. | Investment expenses | | 667,564 | | 679,168 |
| g. | Realized losses | | 0 | | 0 |
| h. | Decrease in unrealized appreciation | | 0 | | 0 |
| i. | Other expenditures | | 96,360 | | 97,957 |
| j. | Total expenditures | \$ | 14,754,331 | \$ | 14,679,223 |
| Ne | t Income: | | | | |
| | Total revenues minus total expenditures | \$ | 4,418,573 | \$ | 8,181,942 |



Asset Reconciliation Table VIa

Summary of Assets for Pension and Retiree Healthcare Benefits Combined

| | <u>Sep</u> | tember 30, 2016 Market | Sept | ember 30, 2014 Market |
|---------------------|------------|---------------------------|------|--------------------------|
| Cash | \$ | 89,687 | \$ | 63,844 |
| Debt Securities | | | | |
| Short-term | | 2,092,626 | | 1,945,266 |
| Bonds | | 9,353,733 | | 11,422,141 |
| Equity Securities | | | | |
| Common Stock | | 123,172,653 | | 125,637,321 |
| Other | | | | |
| Accounts receivable | | 6,928 | | 18,121 |
| Accounts payable | | (139,257) | | (146,899) |
| Accrued Interest | | 288,771 | | 9,953 |
| Total Assets | \$ | 134,865,141 | \$ | 138,949,747 |



Derivation of Actuarial Value of Assets

Table VIb

| | Valuation Date September 30: | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----|---|----------------|------------------|---------------|---------------|---------------|-----------|
| A. | Actuarial Value Beginning of Year | \$127,401,717 | \$132,232,390 | | | | |
| B. | Market Value End of Year | \$130,446,568 | \$134,865,141 | | | | |
| C. | Market Value Beginning of Year | \$138,949,747 | \$130,446,568 | | | | |
| D. | Cash Flow | | | | | | |
| D1. | Contributions | \$7,032,931 | \$7,149,252 | | | | |
| D2. | Other Revenue | 0 | 0 | | | | |
| D3. | , | (13,179,855) | (13,984,162) | | | | |
| D4. | 1 | (126,054) | (102,605) | | | | |
| D5. | 1 | (689,673) | (667,564) | | | | |
| D6. | Net | \$(6,962,651) | \$(7,605,079) | | | | |
| E. | Investment Income | | | | | | |
| E1. | Market Total: B – C – D6 | \$(1,540,528) | \$12,023,652 | | | | |
| E2. | Assumed Rate | 7.80% | 7.80% | | | | |
| E3. | Amount for Immediate Recognition | 11,283,107 | 10,571,833 | | | | |
| E4. | Amount for Phased-In Recognition | \$(12,823,635) | \$1,451,819 | | | | |
| F. | Phased-In Recognition of Investment Income | | | | | | |
| F1. | Current Year: 0.20*E4 | \$(2,564,727) | \$290,364 | | | | |
| F2. | First Prior Year | 990,344 | (2,564,727) | \$290,364 | 0 | 0 | 0 |
| F3. | Second Prior Year | 1,585,387 | 990,344 | (2,564,727) | \$290,364 | 0 | 0 |
| F4. | Third Prior Year | 2,331,288 | 1,585,387 | 990,344 | (2,564,727) | \$290,364 | 0 |
| F5. | Fourth Prior Year | (1,832,075) | <u>2,331,288</u> | 1,585,387 | 990,344 | (2,564,727) | \$290,364 |
| F6. | Total Recognized Investment Gain | \$510,217 | \$2,632,656 | \$301,368 | \$(1,284,019) | \$(2,274,363) | \$290,364 |
| G. | Preliminary Actuarial Value End of Year: | \$132,232,390 | \$137,831,800 | | | | |
| Н. | Adjustment for Prepaid Contribution: | \$0 | \$0 | | | | |
| I. | Final Actuarial Value End of Year: G+H | \$132,232,390 | \$137,831,800 | | | | |
| J. | Difference Between Market & Actuarial Values: | \$(1,785,822) | \$(2,966,659) | \$(3,268,027) | \$(1,984,008) | \$290,364 | \$0 |

The actuarial value of assets recognizes assumed investment income (line E3) fully each year. Differences between actual and assumed investment income (line E4) are phased in over a closed 5 year period. During periods when investment performance exceeds the assumed rate, the actuarial value will tend to be less than market value. During periods when investment performance is less than assumed, the actuarial value will tend to be greater than the market value.



| T | Market Rate | of Return for | Combined | l Assets for | the 2014/201 | 5 Plan Vear |
|----|-------------|----------------|----------|--------------|--------------|---------------|
| 1. | mainet mate | or ixeturn ror | Compine | I MOSCUS IUI | MC 4017/401 | J I Ian I Cai |

| a. Market Value Beginning of Year (Table VIb, Item C) | \$138,949,747 |
|---|---------------|
| b. Market Value End of Year (Table VIb, Item B) | 130,446,568 |
| c. Cash Flow net of Investment Expenses (Table VIb, Items | (6,272,978) |
| D1 through D4) | |
| d. Investment Income net of Investment Expenses $(bac.)$ | (2,230,201) |
| e. Market Rate of Return $(2 \times d. / (a. + b d.))$ | (1.64%) |

II. Market Value of Retiree Healthcare Assets for the 2014/2015 Plan Year

| a. | Market Value Beginning of Year | \$2,193,817 |
|----|--|-------------|
| b. | Actuarially Determined Employer Contribution | 71,761 |
| c. | Benefit Payments | (141,400) |
| d. | Interest at Market Rate of Return (I.e.) | (14,506) |
| e. | Market Value End of Year $(a. + b. + c. + d.)$ | \$2,109,672 |

III. Market Rate of Return for Combined Assets for the 2015/2016 Plan Year

| a. Market Value Beginning of Year (Table VIb, Item C) | \$130,446,568 |
|---|---------------|
| b. Market Value End of Year (Table VIb, Item B) | 134,865,141 |
| c. Cash Flow net of Investment Expenses (Table VIb, Items | (6,937,515) |
| D1 through D4) | |
| d. Investment Income net of Investment Expenses $(bac.)$ | 11,356,088 |
| e. Market Rate of Return $(2 \times d. / (a. + b d.))$ | 8.94% |

IV. Market Value of Retiree Healthcare Assets for the 2015/2016 Plan Year

| a. | Market Value Beginning of Year | \$2,109,672 |
|----|--|-------------|
| b. | Actuarially Determined Employer Contribution | 4,322 |
| c. | Benefit Payments | (133,280) |
| d. | Interest at Market Rate of Return (I.e.) | 182,840 |
| e. | Market Value End of Year $(a. + b. + c. + d.)$ | \$2,163,554 |

V. Allocate Actuarial Value of Assets by Market Value

| | Market Value of Assets | Actuarial Value of Assets |
|-----------------------------|------------------------|---------------------------|
| Pension Benefits | \$132,701,587 | \$135,620,654 |
| Retiree Healthcare Benefits | 2,163,554 | 2,211,146 |
| Total | \$134,865,141 | \$137,831,800 |



Net Pension Liability

Table VIIa

The material presented herein will follow the order presented in GASB 67. Paragraph numbers are provided for ease of reference.

Paragraphs 31(a) (1)-(4): The information is provided in the following table. As stated above, the NPL is equal to the TPL minus the FNP. That result as of September 30, 2016 is presented in the table below.

| | | al Year Ending ember 30, 2016 |
|--|----------|---|
| Total Pension Liability Fiduciary Net Position Net Pension Liability | \$ \$ | 178,562,608 <u>134,865,141</u> 43,697,467 |
| Ratio of Fiduciary Net Position to Total Pension Liability | | 75.53% |



Paragraph 31(b): This paragraph requires information regarding the actuarial assumptions used to measure the TPL. The actuarial assumptions utilized in developing the TPL are outlined in Schedule B. The total pension liability was determined by an actuarial valuation as of September 30, 2016, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 3.0 percent

Salary increases 4.50 - 9.50 percent, average, including inflation

Investment rate of return 7.60 percent, net of pension plan investment expense,

including inflation

Mortality **Pre-Retirement Healthy Mortality**

Female: RP2000 Generational, 100% Combined Healthy

White Collar, Scale BB

Male: RP2000 Generational, 50% Combined Healthy White Collar / 50% Combined Healthy Blue Collar, Scale BB

Post-Retirement Healthy Mortality

Female: RP2000 Generational, 100% Annuitant White

Collar, Scale BB

Male: RP2000 Generational, 50% Annuitant White Collar /

50% Annuitant Blue Collar, Scale BB **Post-Retirement Disabled Mortality**

Female: RP2000, 100% Disabled Female set forward two

years, no projection scale

Male: RP2000, 100% Disabled Male setback four years, no

projection scale



Asset Allocation Table VIIc

The actuarial assumptions used in the September 30, 2016 valuation were based on the results of the last actuarial experience study, dated January 7, 2011.

Paragraph 31.b.(1)

- (a) **Discount rate:** The discount rate used to measure the total pension liability was 7.60%.
- **(b) Projected cash flows:** The projection of cash flows used to determine the discount rate assumed the City would contribute the actuarial determined contribution.
- (c) Long term rate of return: The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.
- (d) Municipal bond rate: the discount rate determination does not use a municipal bond rate
- **(e) Periods of projected benefit payments:** projected future benefit payments for all current plan members were projected through 2111.
- **(f) Assumed Asset Allocation:** The target asset allocation and best estimates of arithmetic rates of return for each major asset class are summarized in the following table:

| Asset Class | Target Allocation | Long-Term Expected Rate of Return |
|----------------------|----------------------|--------------------------------------|
| B | 400/ | 11.10/ |
| Domestic Equity | 40% | 11.1% |
| Bonds | 25 | 7.6 |
| International Equity | 15 | 6.4 |
| Private Real Estate | 8 | 7.9 |
| Convertibles | 7 | 9.5 |
| MLP's | 5 | 16.9 |
| Total | 100% | |



(g) Sensitivity analysis: this paragraph requires disclosure of the sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the System, calculated using the discount rate of percent, as well as what the System's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

| | 1% Decrease 6.60% | Current Discount Rate 7.60% | 1% Increase 8.60% |
|--------------------------------|-------------------------|-----------------------------|-------------------------|
| System's net pension liability | \$61,796,083 | \$43,697,467 | \$28,369,974 |

Paragraph 31(c): September 30, 2016 is the actuarial valuation date upon which the TPL is based. No roll-forward procedures were used to determine the TPL.



Paragraph 34: In addition the following should be noted regarding the RSI:

Changes of benefit terms: None.

Changes of assumption: Since the previous valuation, the following assumption changes have been made:

- The assumed rate of return will be lowered by 0.2% to in 5 biennial steps for each valuation beginning September 30, 2014. The assumed rate of return was lowered from 7.80% to 7.60% since the previous valuation.
- The mortality assumption was updated to comply with Florida Statute 112.63(1)(f).

Method and assumptions used in calculations of actuarially determined contributions. The actuarially determined contribution rates are determined on an annual basis. The following actuarial methods and assumptions were used to determine contribution rates reported in that schedule:

Actuarial cost method Entry age

Amortization method Level dollar, closed

Remaining amortization period 13 years

Asset valuation method 5-year smoothed market

Inflation

Salary increase 4.50-9.50 percent, including inflation

Investment rate of return 7.80 percent, net of pension plan investment

3.00 percent

expense, including inflation



SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY GASB 67 Paragraph 32(a)

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--|----------------|----------------|----------------|------|------|------|------|------|------|------|
| Total manaian liabilita | 2010 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2000 | 2007 |
| Total pension liability | Φ 0.60.027 | Φ 075 073 | Φ 075 073 | | | | | | | |
| Service Cost | \$ 960,937 | \$ 875,872 | \$ 875,872 | | | | | | | |
| Interest | 13,265,393 | 13,080,194 | 13,039,418 | | | | | | | |
| Benefit changes | | 1,929,586 | | | | | | | | |
| Difference between expected and actual | | | | | | | | | | |
| experience | (6,829,727) | | | | | | | | | |
| Changes of assumptions | 8,088,948 | | | | | | | | | |
| Benefit payments | (13,902,080) | (13,007,151) | (13,664,554) | | | | | | | |
| Refunds of contributions | (82,082) | (31,304) | (82,048) | | | | | | | |
| Net change in total pension liability | \$ 1,501,389 | \$ 2,847,197 | \$ 168,688 | | | | | | | |
| Total naugion liability hasinning | \$ 177,061,219 | ¢ 174 214 022 | ¢ 174 045 224 | | | | | | | |
| Total pension liability - beginning | | \$ 174,214,022 | \$ 174,045,334 | | | | | | | |
| Total pension liability - ending (a) | \$ 178,562,608 | \$ 177,061,219 | \$ 174,214,022 | | | | | | | |
| Plan net position | | | | | | | | | | |
| Contributions - employer | \$ 6,788,559 | \$ 6,586,144 | \$ 6,586,424 | | | | | | | |
| Contributions - member | 360,693 | 375,026 | 388,789 | | | | | | | |
| Net investment income | 11,356,088 | (2,230,201) | 14,895,032 | | | | | | | |
| Benefit payments | (13,902,080) | (13,007,151) | (13,664,554) | | | | | | | |
| Administrative expense | (102,605) | (126,054) | (103,765) | | | | | | | |
| Refunds of contributions | (82,082) | (31,304) | (82,048) | | | | | | | |
| Other | - | 2,149,812 | - | | | | | | | |
| Net change in plan net position | \$ 4,418,573 | \$ (6,283,728) | \$ 8,019,878 | | | | | | | |
| Plan net position - beginning | \$ 130,446,568 | \$ 136,730,296 | \$ 128,710,418 | | | | | | | |
| Plan net position - ending (b) | \$ 134,865,141 | \$ 130,446,568 | \$ 136,730,296 | | | | | | | |
| Net pension liability - ending (a) - (b) | \$ 43,697,467 | \$ 46,614,651 | \$ 37,483,726 | | | | | | | |



Table VIIg

SCHEDULE OF THE NET PENSION LIABILITY GASB 67 Paragraph 32(b)

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|---|---------------|---------------|--------------------|------|------|------|------|------|------|------|
| | | | | | | | | | | |
| Total pension liability | \$178,562,608 | \$177,061,219 | \$174,214,022 | | | | | | | |
| Plan net position | 134,865,141 | 130,446,568 | <u>136,730,296</u> | | | | | | | |
| Net pension liability | \$ 43,697,467 | \$ 46,614,651 | \$ 37,483,726 | | | | | | | |
| Ratio of plan net position to total pension | | | | | | | | | | |
| liability | 75.53% | 73.67% | 78.48% | | | | | | | |
| | | | | | | | | | | |
| Covered-employee payroll | \$ 6,347,558 | \$ 6,901,570 | \$ 6,757,461 | | | | | | | |
| Net pension liability as a percentage of | | | | | | | | | | |
| covered-employee payroll | 688.41% | 675.42% | 554.70% | | | | | | | |
| os cira empressos pasion | 230.1170 | 373.1270 | 23117070 | | | | | | | |





SCHEDULE OF EMPLOYER CONTRIBUTIONS GASB 67 Paragraph 32(c)

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|---|------------------|------------------|------------------|------------------|------------------|--------------|--------------|------------------|--------------|------------------|
| Actuarially determined employer contribution | \$ 6,788,559 | \$ 7,515,167 | \$ 7,448,089 | \$ 7,157,167 | \$ 7,157,167 | \$ 7,162,033 | \$ 7,094,735 | \$ 6,942,271 | \$ 5,936,524 | \$ 5,962,692 |
| Actual employer contributions | <u>6,788,559</u> | <u>7,515,167</u> | <u>7,448,089</u> | <u>7,157,167</u> | <u>7,157,167</u> | 7,162,033 | 7,094,735 | <u>6,942,271</u> | 5,936,524 | <u>5,962,692</u> |
| Annual contribution deficiency (excess) | - | - | - | - | - | - | - | - | - | - |
| Covered-employee payroll Actual contributions as a | \$ 6,347,558 | \$ 6,901,570 | \$ 6,757,461 | \$ 6,961,827 | \$ 7,834,617 | \$11,280,207 | \$12,090,613 | \$13,546,116 | \$14,806,933 | \$17,597,916 |
| percentage of covered- employee payroll | 106.95% | 108.89% | 110.22% | 102.81% | 91.35% | 63.49% | 58.68% | 51.25% | 40.09% | 33.88% |



Active Data Table Table VIIIa

Tabulated by Attained Age and Years of Service as of September 30, 2016

| | | Ŋ | Years of Ser | vice to Val | uation Dat | e | | Т | otals |
|-----------------|-----|-----|--------------|-------------|------------|-------|---------|-----|----------------------|
| Attained Age | 0-5 | 6-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No. | Valuation Payroll |
| Under 20 | | | | | | | | | |
| 20-24 | | | | | | | | | |
| 25-29 | | | | | | | | | |
| 30-34 | | | 4 | | | | | 4 | \$138,980 |
| 35-39 | | | 12 | 2 | | | | 14 | 592,099 |
| 40-44 | | | 11 | 10 | 1 | | | 22 | 895,820 |
| 45-49 | | | 5 | 9 | 5 | 2 | | 21 | 974,004 |
| 50-54 | | | 2 | 7 | 4 | 9 | 5 | 27 | 1,502,552 |
| 55-59 | | | 10 | 13 | 11 | 9 2 | | 36 | 1,589,326 |
| 60 | | | 1 | 2 | 2 | | | 5 | 253,550 |
| 61 | | | 1 | | | 1 | | 2 | 115,753 |
| 62 | | | | 2 | | | | 2 | 102,214 |
| 63 | | | 1 | | | | | 1 | 30,974 |
| 64 | | | 1 | | | | | 1 | 108,112 |
| 65 | | | | | | 1 | | 1 | 44,173 |
| 66 | | | | | | | | | |
| 67 | | | | | | | | | |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 & Over | | | | | | | | | |
| Totals | 0 | 0 | 48 | 45 | 23 | 15 | 5 | 136 | \$6,347,558 |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 49.77 years Service: 17.79 years Annual Pay: \$46,673



Retiree Data Table Table VIIIb

Retiree and Beneficiary Information September 30, 2016 Tabulated by Attained Ages

| | Service | Retirement | | bility ement | | ors and iciaries | To | otals |
|-----------------|---------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|
| Attained Age | No. | Annual Benefits* | No. | Annual Benefits* | No. | Annual Benefits* | No. | Annual Benefits* |
| Under 20 | | | | | | | | |
| 20-24 | | | | | | | | |
| 25-29 | | | | | | | | |
| 30-34 | | | | | | | | |
| 35-39 | | | 1 | \$6,876 | | | 1 | \$6,876 |
| 40-44 | | | 1 | 5,940 | | | 1 | 5,940 |
| 45-49 | | | 1 | 12,091 | 3 | 37,151 | 4 | 49,242 |
| 50-54 | 1 | \$24,945 | 1 | 16,076 | 2 | 18,365 | 4 | 59,386 |
| 55-59 | 10 | 303,767 | 2 | 22,043 | 3 | 62,065 | 15 | 387,874 |
| 60-64 | 87 | 2,334,321 | 5 | 68,500 | 8 | 95,011 | 100 | 2,497,831 |
| 65-69 | 100 | 2,405,584 | 5 | 45,267 | 15 | 320,107 | 120 | 2,770,958 |
| 70-74 | 94 | 2,418,096 | 4 | 33,989 | 24 | 427,463 | 122 | 2,879,548 |
| 75-79 | 46 | 1,010,899 | 5 | 61,470 | 24 | 237,438 | 75 | 1,309,807 |
| 80-84 | 45 | 896,695 | 9 | 57,627 | 41 | 477,553 | 95 | 1,431,875 |
| 85-89 | 38 | 694,854 | 3 | 20,447 | 19 | 208,886 | 60 | 924,188 |
| 90-94 | 5 | 70,906 | | | 8 | 77,238 | 13 | 148,144 |
| 95 | | | | | | | | |
| 96 | | | | | 1 | 6,743 | 1 | 6,743 |
| 97 | | | | | | | | |
| 98 | | | | | | | | |
| 99 | | | | | | | | |
| 100 & Over | | | | | | | | |
| Totals | 426 | \$10,160,067 | 37 | \$350,326 | 148 | \$1,968,020 | 611 | \$12,478,412 |

^{*} Excluding amounts for the health subsidy

There were 60 vested members with annual deferred benefits of \$738,286 included in the valuation excluding amounts for the health subsidy.

In addition, there were 27 members who enrolled in the DROP. The accumulated benefits credited to the DROP are \$2,906,406.



Data Reconciliation Table VIIIc

| | | Active | Deferred <u>Vested</u> | Retired | DROP | <u>Total</u> |
|----|---|--------|---------------------------|---------|------|--------------|
| 1. | Number of participants as of September 30, 2014 | 159 | 68 | 610 | 37 | 874 |
| 2. | Change in status during the plan year: | | | | | |
| | a. Actives who became inactive | (2) | 2 | | | |
| | b. Members who retired | (4) | | 4 | | |
| | c. Actives who enrolled in DROP | (11) | | | 11 | |
| | d. Vesteds who became active | | | | | |
| | e. Vesteds who retired | | (10) | 10 | | |
| | f. Retirees who became active | | | | | |
| | g. Transfer in | | | | | |
| 3. | No longer participating due to: | | | | | |
| | a. Death | (1) | | (50) | | (51) |
| | b. Refund of contributions | (5) | | | | (5) |
| | c. Receipt of lump sum payment | | | | | |
| | d. Expiration of certain period | | | | | |
| | e. No longer in DROP | | | 21 | (21) | |
| | f. Data change from last year | | | | | |
| | g. Transfer out | | | | | |
| 4. | New participant due to: | | | | | |
| | a. Initial participation | | | | | |
| | b. Death of another participant | | | 15 | | 15 |
| | c. Data change from last year | | | 1 | | 1 |
| 5. | Number of participants as of September 30, 2016 | 136 | 60 | 611 | 27 | 834 |



Historical Data Table IX

Actuarial estimates regarding the inflation rate and real investment return rate were utilized in the valuation. These estimates are used, in combination with the other estimates, to (i) determine the present value of amounts expected to be paid in the future and (ii) establish rates of contribution which are expected to remain relatively level as a percent of total employee payroll.

Inflation

➤ Effective September, 30 2010, 3.00% per annum, compounded annually. This is the rate at which growth in the supply of money and credit is estimated to exceed growth in the supply of goods and services. It may be thought of as the rate of decline in the purchasing power of the dollar. There are a number of indices for measuring the inflation rate. The recent inflation rate as measured by the Consumer Price Index has been:

| Year Ended: | 9/30/2016 | 9/30/2015 | 9/30/2014 | 9/30/2013 | 9/30/2012 | Average for Period |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------------------|
| Actual | 1.5% | 0.0% | 1.7% | 1.2% | 2.0% | 1.3% |
| Assumed | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Real Investment Return

➤ Effective October 1, 2016, 4.60% per annum. This is the rate of return estimated to be produced by investing a pool of assets in an inflation-free environment. Recent real rates of investment return on the actuarial value of assets have been:

| Year Ended: | 9/30/2016 | 9/30/2015 | 9/30/2014 | 9/30/2013 | 9/30/2012 | Average for Period |
|---------------------|-----------|-----------|-----------|-----------|-----------|--------------------|
| Total Rate | 9.7% | 8.9% | 11.4% | 9.1% | 2.1% | 8.2% |
| Less Inflation Rate | 1.5 | 0.0 | 1.7 | 1.2 | 2.0 | 1.3 |
| Actual Real Rate | 8.2 | 8.9 | 9.7 | 7.9 | 0.1 | 6.9 |
| Projected Real Rate | 4.8 | 4.8 | 5.0 | 5.0 | 5.0 | 4.9 |

➤ The total investment return rate was computed by dividing the investment earnings recognized in the actuarial value of assets, before the release of any reserve, by a weighted average of the value of assets during the year. The investment earnings are assumed to be net of any investment expenses.



Historical Data Table IX

> A schedule of recent salary change experience, as measured by average reported pay, follows:

| Year Ended: | 9/30/2016 | 9/30/2015 | 9/30/2014 | 9/30/2013 | 9/30/2012 | Average for Period |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------------------|
| % of Change: Actual Average* | 3.9% | 2.5% | 5.0% | 5.8% | (3.7)% | 2.7% |
| Estimated | 6.2 | 6.2 | 6.3 | 6.3 | 6.4 | 6.3 |
| % Change in Total Payroll | (1.6) | (6.5) | (0.9) | (11.1) | (24.3) | (8.9) |

^{*}Excluding terminations and new members.

Prior Contribution Rates for Pension and Retiree Healthcare Combined

| Valuation Date | Applicable Fiscal Year | Normal Cost | Expenses | Unfunded Actuarial Accrued Liability | Total City Contributions |
|-------------------|---------------------------|-------------|----------|---|-----------------------------|
| 9-30-96 | 1996-97 | 1.42% | 1.04% | 4.76% | 7.22% |
| 9-30-97 | 1997-98 | (3.64) | 1.04 | 15.17 | 12.57 |
| 9-30-98 | 1998-99 | (3.96) | 0.93 | 13.44 | 10.41 |
| 9-30-99 | 1999-00 | (2.43) | 1.05 | 13.89 | 12.51 |
| 9-30-00 | 2000-02 | (2.88) | 1.05 | 16.97 | 15.14 |
| 9-30-01 | 2002-03 | 4.38 | 1.05 | 15.75 | 21.18 |
| 9-30-02 | 2003-04 | 12.33 | 1.05 | 15.20 | 28.58 |
| 9-30-03 | 2004-05 | 11.31 | 1.05 | 22.50 | 34.86 |
| 9-30-04 | 2005-06 | 11.13 | 1.05 | 25.10 | 37.28 |
| 9-30-05 | 2006-07 | 12.91 | 1.05 | 21.86 | 35.82 |
| 9-30-06 | 2007-08 | 12.84 | 1.05 | 20.50 | 34.39 |
| 9-30-07 | 2008-09 | 13.92 | 1.05 | 34.61 | 49.58 |
| 9-30-08 | 2009-10 | 13.26 | 1.05 | 38.92 | 53.23 |
| 9-30-09 | 2010-11 | 13.65 | 0.80 | 45.45 | 59.90 |
| 9-30-10 | 2011-12 | 10.36 | 0.61 | 53.27 | 64.24 |
| 9-30-12 | 2013-14 | 9.61 | 1.26 | 85.07 | 95.99 |
| 9-30-14 | 2015-16 | 11.53 | 1.50 | 89.35 | 102.37 |
| 9-30-16 | 2017-18 | 12.17 | 1.62 | 83.04 | 95.70 |



1. Actuarial Cost Method

> To Determine the Funded Status and the Actuarially Determined Employer Contribution

Entry Age Normal Cost Method on an individual basis.

> To Determine the Present Value of Accrued Benefits Unit Credit

2. Decrements

▶ Pre-Retirement Healthy Mortality

Female: RP2000 Generational, 100% Combined Healthy White Collar, Scale BB Male: RP2000 Generational, 50% Combined Healthy White Collar / 50% Combined Healthy Blue Collar, Scale BB

Representative percentages of deaths assumed to be non-service (ordinary) or service (accidental) related are listed below.

| Age | Ord | inary | Accide | ental |
|-----|--------|--------|--------|--------|
| | Male | Female | Male | Female |
| | | | | |
| 20 | 90.91% | 88.24% | 9.09% | 11.76% |
| 25 | 90.24 | 90.91 | 9.76 | 9.09 |
| 30 | 90.57 | 90.00 | 9.43 | 10.00 |
| 35 | 89.47 | 90.48 | 10.53 | 9.52 |
| 40 | 89.81 | 89.66 | 10.19 | 10.34 |
| | | | | |
| 45 | 90.05 | 89.89 | 9.95 | 10.11 |
| 50 | 90.06 | 90.28 | 9.94 | 9.72 |
| 55 | 89.94 | 90.09 | 10.06 | 9.91 |
| 60 | 90.01 | 90.03 | 9.99 | 9.97 |
| 64 | 90.02 | 89.98 | 9.98 | 10.02 |
| | | | | |

▶ Post-Retirement Healthy Mortality

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB

▶ Post-Retirement Disabled Mortality

Female: RP2000, 100% Disabled Female set forward two years, no projection scale Male: RP2000, 100% Disabled Male setback four years, no projection scale



> Disability

Representative values of the assumed annual rates of disability among members in active service are as follows:

| Age | Ordinary Disability Rate | Accidental Disability Rate |
|-----|-----------------------------|-------------------------------|
| | | |
| 20 | 0.0135% | 0.0065% |
| 25 | 0.0133 | 0.0067 |
| 30 | 0.0202 | 0.0098 |
| 35 | 0.0267 | 0.0133 |
| 40 | 0.0333 | 0.0167 |
| | | |
| 45 | 0.0666 | 0.0334 |
| 50 | 0.1135 | 0.0565 |
| 55 | 0.1935 | 0.0965 |
| 60 | 0.3000 | 0.1500 |
| 64 | 0.3934 | 0.1966 |
| | | |

> Withdrawal from Active Status

Representative values of the assumed annual rates of withdrawal among members in active service are as follows:

| Age | Rate |
|-----|--------|
| | |
| 20 | 15.00% |
| 25 | 13.00 |
| 30 | 11.00 |
| 35 | 9.00 |
| | |
| 40 | 7.00 |
| 45 | 5.00 |
| 50 | 4.00 |
| 54 | 4.00 |
| | |



Retirement

Values of the assumed annual rates of retirement among members in active service are as follows:

| Age | Rate |
|-----------|--------|
| Under 45 | 5.00% |
| Chach 15 | 2.0070 |
| 45 | 5.00 |
| 46 | 5.00 |
| 47 | 5.00 |
| 48 | 7.00 |
| 49 | 10.00 |
| 50 | 12.00 |
| 51 | 15.00 |
| 52 | 15.00 |
| 53 | 15.00 |
| 54 | 15.00 |
| 55 | 20.00 |
| 56 | 20.00 |
| 57 | 20.00 |
| 58 | 20.00 |
| 59 | 20.00 |
| 60 | 25.00 |
| 61 | 30.00 |
| 62 | 40.00 |
| 63 | 40.00 |
| 64 | 50.00 |
| 65 & Over | 100.00 |

An additional 20% are assumed to retire when first eligible for an unreduced retirement benefit. In addition, 100% are assumed to retire upon the attainment of age 60 and the completion of 30 years of service.



3. Interest Rates

➤ Used for Calculating All Liabilities

Effective October 1, 2016 the interest rate is assumed to be 7.60% net of investment expenses per annum, comprised of an inflation rate of 3.00% and a real rate of return of 4.6%.

➤ Used for Calculating Present Value of Accrued Benefits Pursuant to Ch. 112.63 (1)(f)

The interest rate is assumed to be 7.60% (Florida Retirement System's assumed rate of return)

4. Salary Increases

The following representative salary increases are assumed, which includes an inflation rate of 3.00%.

| Age | Rate | Age | Rate | Age | Rate | Age | Rate |
|-----|-------|-----|-------|-----|-------|-----|-------|
| 20 | 9.50% | 30 | 7.50% | 40 | 6.50% | 50 | 6.50% |
| 25 | 9.50% | 35 | 6.50% | 45 | 6.50% | 55 | 5.50% |

5. Marriage Assumptions

- ➤ 80% of members are assumed married or entitled to dependent benefits.
- ➤ Male spouses are assumed to be three years older than female spouses.

6. Expenses

Administrative expenses for the year following the valuation date are assumed to be equal to the actual amount for the previous fiscal year.

7. Cost-of-Living Adjustments

For retirements before October 1, 2012, benefits are assumed to increase 1.50% annually after retirement. For retirements on or after October 1, 2012, cost-of-living adjustments are assumed to be 1.00%. No COLA is assumed for participants who enter the DROP on or after October 1, 2012 while currently participating in the DROP.



8. Assets

Actuarial value, as developed in Tables VIb and VIc. The actuarial value of assets is a market-related method that each year recognizes 20% of the unexpected investment return.

9. Participation in the Health Insurance Premium Assistance program

50%



1. Participation

Participation, which was closed to new members on October 1, 1979, was reopened to new members effective October 6, 1997. Effective June 17, 2007, participation is closed to new members.

2. Credited Service

All service from date of hire. For benefit calculations only, fractional service greater than one-half is rounded up to a whole year. Members entering the Fund for the first time on or after October 6, 1997 who had service with the City had the option of purchasing credit for any or all prior service.

3. Average Final Compensation

For retirements before October 1, 2012, the average annual compensation, excluding unused leave and overtime in excess of 300 hours per fiscal year, during the highest 2 years of his or her last 5 years of contributing service prior to retirement, termination or death.

For retirements on or after October 1, 2012, the average annual compensation, excluding unused leave and overtime in excess of 200 hours per fiscal year, during the last 5 years of contributing service prior to retirement, termination or death. Overtime pay will be based on non-overtime rates for over 40 hours per week.

4. Normal Retirement Benefit

Eligibility

Age 55 and 20 years of credited service

> Benefit Amount

An annual benefit equal to the greatest of:

(a) 2.1% of Average Final Compensation times years of service (maximum 63%) for service accrued before October 1, 2012. For service accrued on or after October 1, 2012, 1.75% of Average Final Compensation times years of service (maximum 52.5%).



(b) 75% of the first \$2,400 of Average Final Compensation, plus 50% of the next \$1,200 of Average Final Compensation, plus 40% of any additional amount.

(c) \$300 per year of service (maximum \$6,000).

5. Early Retirement Benefit

Eligibility

25 years of credited service, regardless of age.

Benefit Amount

Computed as a normal retirement benefit, with a benefit reduction of the lesser of 3% for each year of age below age 55, or 3% for each year of credited service below 30 years. Such benefit shall not be less than \$300 per year of service (service not to exceed 20 years).

6. Postponed Retirement

Eligibility

Retirement after first eligible for normal retirement benefit.

> Benefit Amount

Computed as a normal retirement benefit plus, under formula (b) only, 1% of the normal retirement benefit for each year of service credited after normal retirement date, but before age 70.

7. Disability Benefit – Service-Connected

Eligibility

Total and permanent disability or partial disability incurred in the line of duty.



> Benefit Amount

Accrued retirement benefit at date of disability, with a benefit reduction for formulas (a) and (b) of 2% for each year by which service at date of disability is less than 20 years. For partial disability, the benefit is further reduced by a certain percentage determined by the Board. Such benefit shall not be less than \$300 per year of service (service not to exceed 20 years).

8. Disability Benefit – Not Service-Connected

> Eligibility

Total and permanent disability or partial disability, and 6 years of credited service.

Benefit Amount

Accrued retirement benefit at date of disability, with a benefit reduction for formulas (a) and (b) of 5% for each of the first 5 years, and 3% for each of the next 5 years by which service at date of disability is less than 20 years. For partial disability, the benefit is further reduced by a certain percentage determined by the Board. Such benefit shall not be less than \$300 per year of service (service not to exceed 20 years).

9. Death Benefit – Service-Connected

> Eligibility

None.

> Benefit Amount

Computed as 80% of service-connected disability benefit, payable to the widow until death. If there is no surviving spouse, any dependent child(ren) under the age of 18 shall receive a benefit in the amount that a surviving spouse would have been entitled to. The total of all children's benefits shall not exceed the amount payable to the widow.



10. Death Benefit – Not Service-Connected

Eligibility

6 years of credited service.

Benefit Amount

Same as service-connected death benefit, except widow's benefit is computed as a non-service connected disability benefit.

11. Vested Termination

Eligibility

6 years of credited service.

> Benefit Amount

The accrued retirement benefit, payable at age 60. If the member terminated with at least 20 years of credited service, the benefit is payable at age 55.

12. Non-Vested Termination

A member terminating for any cause, other than line of duty disability, with less than 6 years of credited service is entitled to a refund of all accumulated contributions.

13. Cost-of-Living Adjustments

For retirements before October 1, 2012, the cost of living adjustment (COLA) is based on the Consumer Price Index (CPI-U) from April 1 of the preceding year to March 31 of the year in which the increase is to be given, subject to a maximum increase of 1.50% per year.

For retirements on or after October 1, 2012, the COLA is also based on the Consumer Price Index (CPI-U), subject to a maximum increase of 1.00% per year.

For participants who enter the DROP on or after October 1, 2012, no COLA is granted while participating in the DROP.



14. Deferred Retirement Option Plan (DROP)

An active member eligible for normal retirement may continue employment with the City but elect to freeze the accrual of additional benefits as of the effective date of such election (as if the member had retired on such date). The member's normal retirement benefit payments will be credited to a DROP account. Member and City contributions to the Fund cease for the participant. A DROP participant's continued employment cannot normally exceed 60 months.

The DROP account will earn interest at 4% per annum for participants who entered the DROP prior to October 1, 2012 and 1.3% per year for participants who entered the DROP on or after to October 1, 2012. Cost-of-living adjustments are also credited to the benefits in the DROP account for participants who entered the DROP prior to October 1, 2012. Participants who entered the DROP on or after October 1, 2012 are not eligible for COLA payments while participating in the DROP.

Upon resignation, the participant then receives a distribution from the DROP account as well as regular monthly retirement benefits.

15. Retiree Health Insurance Premium Assistance

The Fund shall provide premium assistance for each covered retiree participating in the City group health insurance plan in the amount of \$56 per month (not indexed for inflation).

16. Normal Form of Benefit

For participants who retired prior to October 1, 2012, the normal form of benefit is a benefit payable for life. Upon death 80% of the benefit is continued for the lifetime of the beneficiary. For participants who retire on or after October 1, 2012, the normal form of benefit is a single life annuity. Upon death all benefit payments stop.



17. Annual Contributions

> Member

All members contribute 5.5% of compensation to the Fund.

> City

The City contributes an actuarially determined amount which, together with member contributions, equals the sum of the normal cost and payments for the amortization of the unfunded actuarial accrued liability over a period not exceeding 40 years (currently 11 years).