

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Actuarial Valuation Report as of October 1, 2015

(Determining costs for the Plan Year  
beginning October 1, 2016)

Prepared by:

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December 24, 2015

Board of Trustees  
Jacksonville Police and Fire Pension Fund  
One West Adams Street, Suite 100  
Jacksonville, Florida 32202-3616

Actuarial Valuation as of October 1, 2015

Gentlemen:

We are pleased to forward our report on the 2015 Actuarial Valuation of the Jacksonville Police and Fire Pension Fund. The minimum required contribution is for the Plan Year beginning October 1, 2016.

The valuation results were based on participant data as of July 1, 2015, provided by the City. Fund assets and the Plan as of September 30, 2015, were reported by the Plan Administrator. Valuation Pay is the annualized sum of reported rate of pay, upgrade pay and shift pay as of July 1<sup>st</sup>. All of this data has been reviewed for consistency with prior data and for general reasonableness.

Ordinance 2015-304-E cutback several provisions of the Plan as shown on page 6. Effective June 19, 2015, reduced benefits were adopted for new hires as shown on page 7. The actuarial assumptions were updated after a four year review ending September 30, 2015.

Statement by Actuary:

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 that may require material increases in Plan costs or required contribution rates have been taken into account in the valuation.

I am a member of the American Academy of Actuaries and meet its Qualification Standards to render the actuarial opinion contained herein.

Jarmon Welch, A.S.A.  
PENSION BOARD CONSULTANTS, INC.

Date

14 - 1108  
Enrollment Number

JACKSONVILLE POLICE AND FIRE PENSION FUND

Actuarial Report for the Plan Year Beginning October 1, 2015

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# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Derivation of City Minimum Required Contribution as of October 1, 2015

|                                                                                        | <u>10/1/2014</u><br><u>Actuarial</u><br><u>Report</u> | <u>10/1/2014</u><br><u>with</u><br><u>Ordinance 2015-304-E</u> | <u>10/1/2015</u><br><u>with</u><br><u>3 Offsetting</u><br><u>Assumption</u><br><u>Changes</u> |
|----------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Covered October 1 Payroll                                                              | \$134,521,216                                         | \$134,521,216                                                  | \$132,735,243                                                                                 |
| 1. Actuarial Accrued Liabilities                                                       |                                                       |                                                                |                                                                                               |
| a. Active Participants                                                                 | \$755,671,330                                         | \$726,986,370                                                  | \$732,810,115                                                                                 |
| b. Inactive Participants                                                               | <u>\$2,256,919,238</u>                                | <u>\$2,256,919,238</u>                                         | <u>\$2,409,418,097</u>                                                                        |
| c. Total (a. + b.)                                                                     | \$3,012,590,568                                       | \$2,983,905,608                                                | \$3,142,228,212                                                                               |
| 2. Market Value of Assets                                                              |                                                       |                                                                |                                                                                               |
| a. Gross Market Value                                                                  | \$1,473,097,052                                       | \$1,473,097,052                                                | \$1,437,907,379                                                                               |
| b. Reserve Accounts                                                                    | \$79,092,361                                          | \$79,092,361                                                   | \$92,811,038                                                                                  |
| c. Sr. Staff Plan Assets                                                               | <u>\$4,257,077</u>                                    | <u>\$4,257,077</u>                                             | <u>\$4,002,294</u>                                                                            |
| d. Net Market Value (a. - b. - c.)                                                     | \$1,389,747,614                                       | \$1,389,747,614                                                | \$1,341,094,047                                                                               |
| 3. Unfunded Actuarial Accrued Liability<br>(1.c. - 2.d.)                               | \$1,622,842,954                                       | \$1,594,157,994                                                | \$1,801,134,165                                                                               |
| 4. Costs                                                                               |                                                       |                                                                |                                                                                               |
| a. UAAL Amortization Payment                                                           | \$111,578,279                                         | \$110,106,109                                                  | \$123,070,241                                                                                 |
| b. Normal Cost (Individual EA)                                                         | \$47,615,082                                          | \$46,662,780                                                   | \$44,087,089                                                                                  |
| c. Annual Expense                                                                      | <u>\$9,864,686</u>                                    | <u>\$9,864,686</u>                                             | <u>\$9,926,208</u>                                                                            |
| d. Total Cost BOY (a. + b. + c.)                                                       | \$169,058,047                                         | \$166,633,575                                                  | \$177,083,538                                                                                 |
| 5. Contributions                                                                       |                                                       |                                                                |                                                                                               |
| a. Members (including DROPs)                                                           | \$10,196,708                                          | \$11,510,468                                                   | \$11,410,245                                                                                  |
| b. Chapter Funds Allocation                                                            | \$5,380,849                                           | \$5,288,927                                                    | \$5,288,927                                                                                   |
| c. Court Fines                                                                         | \$887,840                                             | \$920,774                                                      | \$920,774                                                                                     |
| d. City Minimum<br>(4.d. - (5.a. + 5.b. + 5.c.))                                       |                                                       |                                                                |                                                                                               |
| 1. Dollars on October 1                                                                | \$152,592,650                                         | \$148,913,406                                                  | \$159,463,592                                                                                 |
| 2. % Covered Payroll on October 1                                                      | 113.43%                                               | 110.70%                                                        | 120.14%                                                                                       |
| 3. Dollars on December 1<br>(one year hence)<br>= d.1. x 1.0325 x 1.07 <sup>2/12</sup> | \$159,338,591                                         | \$155,496,692                                                  | \$166,513,289                                                                                 |

### Reconciliation

The City minimum contribution increased \$11,016,597 due to:

1. Actual earnings (-3.95%) were \$159,377,493 lower than expected. This increased costs \$8,500,686.
2. Assumptions update decreased costs \$330,969.
3. Experience losses increased liabilities \$24,831,339. This increased costs \$1,324,424.
4. The UAAL amortization method increases its payments 3.25% annually. The increase was \$3,578,449.
5. The initial base established in 1976 is fully amortized. This decreased cost by \$2,055,993.



# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Unfunded Actuarial Accrued Liability Amortization as of October 1, 2015

|                                                                                         |                 |
|-----------------------------------------------------------------------------------------|-----------------|
| 1. UAAL on October 1, 2014                                                              | \$1,622,842,954 |
| 2. Normal Cost at Beginning of Year                                                     | \$56,527,466    |
| 3. Decrease due to Ordinance 2015-304E                                                  | \$28,684,960    |
| 4. 7.0% Annual Interest on (1) plus (2) minus (3)<br>plus DROP 1.4% additional interest | \$120,716,642   |
| 5. Contributions for PYE2014 (one year lag)                                             | \$169,694,135   |
| 6. Interest on Contributions                                                            | \$9,296,988     |
| 7. Increase due to Investment Loss                                                      | \$159,377,493   |
| 8. Increase due to Reallocation                                                         | \$24,514,349    |
| 9. Increase due to Experience Losses                                                    | \$24,831,339    |
| 10. UAAL on September 30, 2015<br>(1) + (2) - (3) + (4) - (5) - (6) + (7) + (8) + (9)   | \$1,801,134,161 |
| 11. Expected Amortization Payment<br>on October 1, 2015                                 | \$125,055,890   |
| 12. Item 11. less \$1,985,649                                                           | \$123,070,241   |

Expected UAAL = [10/1 Expected UAAL - Expected Amortization Payment (3.25% annual increase)] \* 1.07 (annual interest)

Costs are adjusted when a base is fully amortized.

JACKSONVILLE POLICE AND FIRE PENSION FUND  
Development of UAAL by Components as of October 1, 2015

| Date<br>Established | Initial<br>Amount      | UAAL as of<br>10/1/2015 | Remaining<br>Period 10/1/2015 | Required<br>Amortization 10/1/2015 | UAAL as of<br>10/1/2016 |
|---------------------|------------------------|-------------------------|-------------------------------|------------------------------------|-------------------------|
| 1-Oct-76            | \$16,087,880           | \$1,985,649             | 1.00                          | \$1,985,649                        | \$0                     |
| 1-Oct-87            | \$3,868,562            | \$941,045               | 2.00                          | \$478,915                          | \$494,479               |
| 1-Oct-88            | \$17,910,698           | \$8,180,985             | 3.00                          | \$2,824,840                        | \$5,731,075             |
| 1-Oct-89            | \$19,019,326           | \$11,681,195            | 4.00                          | \$3,078,382                        | \$9,205,010             |
| 1-Oct-90            | \$508,620              | \$373,895               | 5.00                          | \$80,206                           | \$314,247               |
| 1-Oct-92            | (\$4,444,031)          | (\$3,080,585)           | 7.00                          | (\$488,553)                        | (\$2,773,474)           |
| 1-Oct-96            | \$126,129,419          | \$146,043,365           | 11.00                         | \$15,768,761                       | \$139,393,826           |
| 1-Oct-97            | \$44,127,813           | \$52,462,512            | 12.00                         | \$5,279,525                        | \$50,485,796            |
| 1-Oct-98            | (\$5,280,099)          | (\$6,412,249)           | 13.00                         | (\$605,574)                        | (\$6,213,142)           |
| 1-Oct-01            | \$6,296,677            | \$7,828,900             | 16.00                         | \$630,851                          | \$7,701,912             |
| 1-Oct-03            | \$158,527,905          | \$194,650,315           | 18.00                         | \$14,396,788                       | \$192,871,274           |
| 1-Oct-06            | \$111,179,581          | \$131,063,212           | 21.00                         | \$8,711,884                        | \$130,915,921           |
| 1-Oct-08            | \$230,168,269          | \$261,064,488           | 23.00                         | \$16,343,988                       | \$261,850,935           |
| 1-Oct-11            | \$550,672,339          | \$581,693,823           | 26.00                         | \$33,725,366                       | \$586,326,249           |
| 1-Oct-12            | \$280,879,031          | \$290,938,141           | 27.00                         | \$16,489,841                       | \$293,659,681           |
| 1-Oct-13            | (\$37,626,922)         | (\$38,564,191)          | 28.00                         | (\$2,139,468)                      | (\$38,974,454)          |
| 1-Oct-14            | (\$52,239,546)         | (\$52,914,984)          | 29.00                         | (\$2,876,845)                      | (\$53,540,809)          |
| 1-Oct-15            | \$213,198,649          | \$213,198,649           | 30.00                         | \$11,371,334                       | \$215,955,227           |
|                     | <b>\$1,678,984,171</b> | <b>\$1,801,134,165</b>  |                               | <b>\$125,055,890</b>               | <b>\$1,793,403,753</b>  |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Reconciliation of Accounts October 1, 2014 through September 30, 2015

### Unfunded Actuarial Liability Payment Account (UALPA)

|                                             |                    |
|---------------------------------------------|--------------------|
| Account Value, 10/01/14                     | \$0                |
| Additions                                   |                    |
| Transfer from CBSA 10/1                     | \$45,908,495       |
| Transfer from EBA 10/1                      | \$33,183,866       |
| Chapter deposit in August, 2015             | \$10,577,853       |
| Interest                                    | <u>\$5,195,858</u> |
| Total Additions                             | \$94,866,073       |
| Subtractions                                |                    |
| Annual Retiree Bonus paid in December, 2014 | \$2,173,260        |
| Transfer to CBSA 9/30                       | \$5,085,293        |
| Transfer to EBA 9/30                        | \$5,118,623        |
| Interest                                    | <u>(\$118,224)</u> |
| Total Subtractions                          | \$12,258,951       |
| Account Value, 09/30/15                     | \$82,607,122       |

### NOTES:

1. Interest above is at 7.0%, except actual earnings on EBA funds including Chapter.
2. The balance in the CBSA on September 30, 2015 was \$5,085,2293.
3. The balance in the EBA on September 30, 2015 was \$5,118,623.

### Ordinance 2015-304E Supplemental Payments

| <u>Fiscal Year</u> | <u>CITY</u>          | <u>UALPA</u>         |
|--------------------|----------------------|----------------------|
| 2016               | \$5,000,000          | \$5,000,000          |
| 2017               | \$10,000,000         | \$10,000,000         |
| 2018               | \$15,000,000         | \$15,000,000         |
| 2019-2028          | <u>\$32,000,000</u>  | <u>\$8,000,000</u>   |
| <b>TOTAL</b>       | <b>\$350,000,000</b> | <b>\$110,000,000</b> |

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Actuarial Assumptions and Methods

The actuarial assumptions were updated after an experience study for the four years ending September 30, 2015.

#### Economic Assumptions

|                   |                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------|
| Investment Yield: | 7% annually                                                                                                    |
| Salary Increases: | 3.5% annually (prior 3% for 2 years, 4% thereafter)                                                            |
| Annual COLA:      | 3% annually reduced to 2.5% for future service for actives with less than 20 years of service on June 19, 2015 |
| DROP Load:        | 2% on active and DROP liabilities for interest greater than 7%                                                 |
| Payroll Increase: | 3.25% annually                                                                                                 |

#### Demographic Assumptions

|            |                                                                                                                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mortality: | RP-2014 Blue Collar, age set forward 2 years for males and 1 year for females, with MP-2014 Improvement Scale, generational, sex distinct (Prior RP-2000, Projection AA to valuation date, sex distinct, combined healthy or disabled) |
| Turnover:  | No vested refunds or disability recoveries (Prior withdrawal rates were increased 50%)                                                                                                                                                 |

| <u>Age</u> | <u>Withdrawal Rate</u> | <u>Disability Rate per 1,000</u> |
|------------|------------------------|----------------------------------|
| 25         | .036                   | 0.36                             |
| 35         | .009                   | 0.48                             |
| 45         | .000                   | 1.20                             |

|             |                                                               |
|-------------|---------------------------------------------------------------|
| Married:    | 75% actives, 50% retirees (tax status), wives 3 years younger |
| Retirement: | 40% at 20 years, 30% thereafter to 30 years (or age 61).      |

#### Actuarial Methods

|         |                      |
|---------|----------------------|
| Cost:   | Individual Entry Age |
| Assets: | Market Value         |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Plan Outline

### ***GROUP I active on June 19, 2015***

|                        |                                                                                                                                 |                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Credited Service       | full time from date of employment including buybacks                                                                            |                       |
| Benefit Percentage     | 3% for first 20 YOS plus 2% for additional 10 YOS (max 80%)                                                                     |                       |
| Final Average Earnings | final 2 years (<5 YOS on June 19, 2015, final 4 years)                                                                          |                       |
| Normal Retirement Date | 20 YOS                                                                                                                          |                       |
| Vesting                | 5 years                                                                                                                         |                       |
| Employee Contributions | 8% (10% when certain pay raises occur)                                                                                          |                       |
| Early Retirement       | N/A                                                                                                                             |                       |
| Normal Form Of Payment | Joint and 75%                                                                                                                   |                       |
| Retiree COLA           | 3% annually January after retirement if >=20 YOS on June 19, 2015                                                               |                       |
|                        | If not, 3% annually for service accrued as of June 19, 2015 and SS COLA (min 0%, max 6%) on service accrued after June 19, 2015 |                       |
| Disability             | Permanent & Total: 60% of FAE, Temporary: available                                                                             |                       |
| DROP                   | up to 5 YOS                                                                                                                     |                       |
|                        | Interest: >= 20 YOS on June 19, 2015, 8.4% interest for 5 years and thereafter;                                                 |                       |
|                        | < 20 YOS on June 19, 2015, actual return (min 2%, max 14.4%)                                                                    |                       |
|                        | 2% employee contributions                                                                                                       |                       |
| Pre Retirement Death   | < 20 YOS                                                                                                                        | 75% of (60% of FAE)   |
|                        | >20 YOS                                                                                                                         | 75% of normal benefit |
|                        | In addition: \$200/month per child, (total 75% of normal benefit if orphan)                                                     |                       |
| Health Supplement      | \$5.00 / month for each YOS (maximum 30 YOS)                                                                                    |                       |
| Chapter Funds          | 50% credited as a City contribution for 15 years, balance to a share plan and holiday bonus                                     |                       |

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Plan Outline

#### ***GROUP II***

#### **Impact on New Hires**

1. Credited Service for retirement increased from 20 to 30 years (steep reductions for early retirement after 25 years).
2. Earnings Base computed as average of last 5 years.
3. Three year delay in annual Cost of Living increases (reduced from 3% to 1.5% maximum Social Security).
4. Disability benefit reduced to 50% of Earnings Base from 60%.
5. Vesting changed from NRA&5 to age 62&10 (2% accrual rate).
6. Benefit percentage reduced from 3.0% to 2.5%.
7. Back-Drop implemented, no DROP.

#### Changes Since the October 1, 2014 Valuation:

Effective June 19, 2015, Ordinance 2015-304-E.

#### *Changes to Group I:*

1. From 2 year to 4 year final average earnings for <5 YOS on June 19, 2015.
2. Employee contributions increase from 7% to 8% immediately and an additional 2% increase when certain pay raises occur.
3. Retiree COLA from 3% to 0%-6% (max SS COLA) if < 20 YOS on June 19, 2015.
4. City contributions above minimum requirements totaling \$350 million over the next 13 years plus \$110 million transfer from UALPA.
5. City contribution reduction for a portion of Chapter deposit changed from 4% of valuation pay to 50% of Chapter deposit.

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Historical Key Statistics

| Class of Participant   | Valuation Date |          |          |          |           |
|------------------------|----------------|----------|----------|----------|-----------|
|                        | 10/01/11       | 10/01/12 | 10/01/13 | 10/01/14 | 10/1/2015 |
| Continuing Actives     |                |          |          |          |           |
| (excluding DROP)       | 2,428          | 2,203    | 2,082    | 2,034    | 2,072     |
| Pay Increase %         | 2.5%           | 0.4%     | 2.9%     | 3.0%     | 3.8%      |
| Active                 |                |          |          |          |           |
| Number                 | 2,451          | 2,213    | 2,150    | 2,237    | 2,202     |
| Average Age            | 39.3           | 39.9     | 40.2     | 40.0     | 39.9      |
| Average Annual Pay     | \$60,862       | \$60,523 | \$61,082 | \$60,276 | \$60,511  |
| Average Service        | 10.8           | 11.2     | 11.5     | 11.2     | 11.1      |
| Retired                |                |          |          |          |           |
| Number                 | 1,529          | 1,556    | 1,618    | 1,710    | 1,785     |
| Average Age            | 65.5           | 65.7     | 65.5     | 65.3     | 65.3      |
| Average Annual Benefit | \$51,395       | \$53,042 | \$54,461 | \$55,940 | \$57,674  |
| Disabled               |                |          |          |          |           |
| Number                 | 57             | 57       | 56       | 55       | 54        |
| Average Age            | 61.3           | 61.4     | 61.4     | 61.5     | 62.1      |
| Average Annual Benefit | \$31,003       | \$32,403 | \$33,958 | \$35,600 | \$37,029  |
| Surviving Spouses      |                |          |          |          |           |
| Number                 | 390            | 401      | 418      | 431      | 425       |
| Average Age            | 72.6           | 72.6     | 72.8     | 73.3     | 73.5      |
| Average Annual Benefit | \$26,347       | \$28,075 | \$29,677 | \$31,227 | \$32,843  |
| Children               |                |          |          |          |           |
| Number                 | 28             | 31       | 31       | 32       | 29        |
| Average Age            | 12.8           | 13.1     | 13.5     | 13.5     | 13.9      |
| Average Annual Benefit | \$3,284        | \$3,254  | \$3,267  | \$3,261  | \$3,252   |
| Terminated Vested      |                |          |          |          |           |
| Number                 | 38             | 52       | 60       | 62       | 72        |
| Average Age            | 43.3           | 44.0     | 43.8     | 43.2     | 43.2      |
| Average Annual Benefit | \$14,512       | \$18,072 | \$19,128 | \$18,015 | \$18,540  |
| DROP                   |                |          |          |          |           |
| Number                 | 439            | 550      | 542      | 511      | 541       |
| Average Age            | 50.4           | 50.1     | 50.3     | 50.5     | 50.5      |
| Average Annual Benefit | \$48,572       | \$49,221 | \$50,581 | \$51,240 | \$50,478  |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Reconciliation of Number of Participants by Status

|                                                      | <u>Actives</u> | <u>Retirees</u> | <u>Vested<br/>Terminations</u> | <u>Disabilities</u> | <u>Surviving<br/>Spouses</u> | <u>Children</u> | <u>DROP</u> |
|------------------------------------------------------|----------------|-----------------|--------------------------------|---------------------|------------------------------|-----------------|-------------|
| Number on 07/01/14<br>Used for 10/01/14<br>Reporting | 2,237          | 1,710           | 62                             | 55                  | 431                          | 32              | 511         |
| New Entrants/Rehire                                  | 132            |                 |                                |                     |                              |                 |             |
| Transfers from<br>GEPP/Corrections                   | 6              |                 |                                |                     |                              |                 |             |
| Non-Vested/Refunded<br>Terminations                  | (26)           |                 |                                |                     |                              |                 |             |
| Vested Terminations                                  | (15)           |                 | 14                             |                     |                              |                 |             |
| Retirees                                             | (1)            | 104             | (5)                            |                     |                              |                 | (98)        |
| Disabilities                                         |                |                 |                                |                     |                              |                 |             |
| Deaths with no<br>Survivors                          | (1)            | (9)             |                                |                     | (26)                         |                 |             |
| Payments Stopped<br>(Age 18 or Remarried)            |                |                 |                                |                     |                              | (6)             |             |
| Deaths with Survivors                                | (1)            | (19)            |                                | (1)                 |                              |                 | (1)         |
| New Beneficiaries                                    |                |                 |                                |                     | 21                           | 3               |             |
| New DROP Retirees                                    | (129)          |                 |                                |                     |                              |                 | 129         |
| Data Corrections                                     |                |                 |                                |                     | (1)                          |                 |             |
| Number on 07/01/15<br>Used for 10/01/15<br>Valuation | <u>2,202</u>   | <u>1,786</u>    | <u>71</u>                      | <u>54</u>           | <u>425</u>                   | <u>29</u>       | <u>541</u>  |



**JACKSONVILLE POLICE AND FIRE PENSION FUND**  
**Active Age and Service Distribution as of October 1, 2015**

Cell Format: Number In Each Group, Average Age, Average Service, And Average Salary

| Service |       | Both Sexes Included |         |       |         |         |       |       |       |       |      |      |      | ALL   |
|---------|-------|---------------------|---------|-------|---------|---------|-------|-------|-------|-------|------|------|------|-------|
|         |       | >=1                 | >=2     | >=3   | >=4     | >=5     | >=10  | >=15  | >=20  | >=25  | >=30 | >=35 | >=40 |       |
| Age     | <1    | <2                  | <3      | <4    | <5      | <10     | <15   | <20   | <25   | <30   | <35  | <40  | >=40 |       |
| <25     | 23    | 23                  | 2       | 0     | 1       | 0       | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 49    |
|         | 23.48 | 23.97               | 24.20   | 0.00  | 24.82   | 0.00    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 23.77 |
|         | 0.68  | 1.52                | 2.35    | 0.00  | 4.44    | 0.00    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 1.22  |
|         | 36563 | 40459.4             | 43972.4 | 0     | 36837.3 | 0       | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 38700 |
| >=25    | 30    | 83                  | 25      | 4     | 3       | 67      | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 212   |
|         | 27.27 | 27.51               | 27.60   | 27.41 | 26.97   | 28.67   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 27.84 |
|         | 0.73  | 1.48                | 2.41    | 3.40  | 4.40    | 6.52    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 3.16  |
|         | 37270 | 41460.7             | 47000.9 | 44223 | 41667.1 | 54749.8 | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 45776 |
| >=30    | 17    | 43                  | 26      | 6     | 1       | 215     | 83    | 0     | 0     | 0     | 0    | 0    | 0    | 391   |
|         | 32.31 | 32.21               | 32.10   | 32.60 | 32.69   | 32.61   | 33.31 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 32.67 |
|         | 0.73  | 1.57                | 2.41    | 3.26  | 4.48    | 7.53    | 11.25 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 6.96  |
|         | 37812 | 42008               | 43813   | 40960 | 41589   | 57066   | 63846 | 0     | 0     | 0     | 0    | 0    | 0    | 54844 |
| >=35    | 7     | 26                  | 10      | 2     | 0       | 144     | 214   | 31    | 0     | 0     | 0    | 0    | 0    | 434   |
|         | 37.21 | 36.98               | 37.23   | 36.29 | 0.00    | 37.30   | 37.58 | 38.46 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 37.50 |
|         | 0.76  | 1.55                | 2.40    | 3.41  | 0.00    | 7.81    | 12.21 | 16.34 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 9.95  |
|         | 38012 | 41759               | 42379   | 44010 | 0       | 57094   | 64363 | 68948 | 0     | 0     | 0    | 0    | 0    | 59899 |
| >=40    | 7     | 8                   | 4       | 1     | 0       | 84      | 203   | 174   | 29    | 0     | 0    | 0    | 0    | 510   |
|         | 41.55 | 42.23               | 42.97   | 41.49 | 0.00    | 42.20   | 42.47 | 42.89 | 43.19 | 0.00  | 0.00 | 0.00 | 0.00 | 42.59 |
|         | 0.78  | 1.50                | 2.64    | 3.50  | 0.00    | 7.86    | 12.75 | 17.80 | 20.88 | 0.00  | 0.00 | 0.00 | 0.00 | 13.69 |
|         | 37367 | 40243               | 42979   | 46092 | 0       | 55851   | 64276 | 69857 | 75555 | 0     | 0    | 0    | 0    | 64485 |
| >=45    | 1     | 3                   | 2       | 0     | 0       | 42      | 93    | 176   | 55    | 10    | 0    | 0    | 0    | 382   |
|         | 45.53 | 45.77               | 46.50   | 0.00  | 0.00    | 47.22   | 47.20 | 47.29 | 47.17 | 48.03 | 0.00 | 0.00 | 0.00 | 47.24 |
|         | 0.91  | 1.74                | 2.19    | 0.00  | 0.00    | 7.48    | 12.34 | 18.30 | 21.86 | 26.44 | 0.00 | 0.00 | 0.00 | 16.12 |
|         | 38566 | 38145               | 41668   | 0     | 0       | 56321   | 62893 | 72608 | 83620 | 89605 | 0    | 0    | 0    | 69961 |
| >=50    | 0     | 0                   | 0       | 0     | 0       | 31      | 48    | 78    | 16    | 3     | 0    | 0    | 0    | 176   |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 52.12   | 51.80 | 52.20 | 51.94 | 52.26 | 0.00 | 0.00 | 0.00 | 52.05 |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 7.87    | 12.46 | 18.01 | 21.35 | 28.01 | 0.00 | 0.00 | 0.00 | 15.19 |
|         | 0     | 0                   | 0       | 0     | 0       | 55715   | 59873 | 67520 | 74511 | 91715 | 0    | 0    | 0    | 64403 |
| >=55    | 0     | 0                   | 0       | 0     | 0       | 2       | 10    | 17    | 7     | 3     | 0    | 0    | 0    | 39    |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 55.15   | 56.95 | 56.95 | 56.82 | 57.55 | 0.00 | 0.00 | 0.00 | 56.88 |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 7.69    | 12.18 | 17.50 | 20.76 | 26.85 | 0.00 | 0.00 | 0.00 | 16.93 |
|         | 0     | 0                   | 0       | 0     | 0       | 58344   | 60661 | 69242 | 72780 | 90641 | 0    | 0    | 0    | 68764 |
| >=60    | 0     | 0                   | 0       | 0     | 0       | 2       | 1     | 4     | 2     | 0     | 0    | 0    | 0    | 9     |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 61.50   | 60.77 | 61.21 | 62.73 | 0.00  | 0.00 | 0.00 | 0.00 | 61.56 |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 7.55    | 13.26 | 18.91 | 20.16 | 0.00  | 0.00 | 0.00 | 0.00 | 16.03 |
|         | 0     | 0                   | 0       | 0     | 0       | 52872   | 60574 | 63560 | 77235 | 0     | 0    | 0    | 0    | 63892 |
| >=65    | 0     | 0                   | 0       | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0     |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 0.00    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
|         | 0.00  | 0.00                | 0.00    | 0.00  | 0.00    | 0.00    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
|         | 0     | 0                   | 0       | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0     |
| ALL     | 85    | 186                 | 69      | 13    | 5       | 587     | 652   | 480   | 109   | 16    | 0    | 0    | 0    | 2202  |
|         | 29.46 | 30.41               | 32.03   | 32.26 | 27.68   | 36.93   | 41.31 | 46.38 | 47.72 | 50.61 | 0.00 | 0.00 | 0.00 | 39.88 |
|         | 0.73  | 1.52                | 2.41    | 3.34  | 4.43    | 7.55    | 12.29 | 17.92 | 21.42 | 26.81 | 0.00 | 0.00 | 0.00 | 11.08 |
|         | 37271 | 41399               | 44654   | 42828 | 40685   | 56500   | 63667 | 70353 | 79324 | 90195 | 0    | 0    | 0    | 60511 |

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Accounting for Pension Costs and Liabilities

#### **GASB Statements 67 and 68**

In June 2012, the Governmental Accounting Standards Board (GASB) approved two new statements, Statement No. 67, *Financial Reporting for Pension Plans*, and Statement No. 68, *Accounting and Financial Reporting for Pensions*. These statements replaced Statement No. 25, *Financial Reporting for Defined Benefit Pension Plans*, and Statement No. 27, *Accounting for Pensions by State and Local Governmental Employers*. These new statements require the addition of plan unfunded liabilities to the employer's balance sheet and also change how the System has to calculate its expense for financial disclosures, but does not change how the System has to calculate its liabilities for its contribution requirements.

GASB No. 67 is effective for Jacksonville Police and Fire Pension Fund ("JPPF") fiscal years beginning October 1, 2013, and GASB No. 68 is effective for Jacksonville fiscal years beginning October 1, 2014.

#### **Notes to the Financial Statements for the Year Ended September 30, 2015**

##### **Plan Description**

*Plan administration.* The Board of Trustees administers the JPPF – a single-employer defined benefit pension plan that provides pensions for all permanent full-time public safety employees of the City. Applicable State laws and statutes as well as local ordinances and Charter provisions grant the authority to establish and amend the benefit terms to the City Council and the State Legislature.

Management of the JPPF is vested in the Board of Trustees, which consists of five members – two appointed by the City Council, and one an active Police Officer elected by active Police members, and one an active Firefighter elected by active Fire members, and, lastly, a fifth selected by the aforementioned four Board members.

*Plan membership.* At September 30, 2015, plan membership consisted of the following:

|                                                                     |              |
|---------------------------------------------------------------------|--------------|
| Inactive plan members or beneficiaries currently receiving benefits | 2,294        |
| Inactive plan members entitled to but not yet receiving benefits    | 71           |
| DROP members                                                        | 541          |
| Active plan members                                                 | <u>2,202</u> |
| Total                                                               | 5,108        |

*Benefits provided.* JPPF provides retirement, disability, and death benefits. Retirement benefits are calculated as 3 percent of the employee's final 2-year average salary times the employee's years of service up to 20 years and 2 percent thereafter (80 percent maximum). Employees with 5 or more years of continuous service are eligible to retire at 20 years from date of employment.

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Accounting for Pension Costs and Liabilities

Employees are eligible for non-duty related death and disability benefits after 10 years of service and for duty-related death and disability benefits upon hire. Terminated vested employees may withdraw their contributions. Terminated non-vested employees must withdraw their contributions.

Benefits are increased 3 percent annually after retirement.

*Contributions.* The JPPF Board establishes contributions based on an actuarially determined rate recommended by an independent actuary. This rate is the estimated costs of benefits earned by employees during the year, with an additional amount to finance the unfunded accrued liability. The City is required to contribute the difference between the actuarially determined rate, the contribution rate of employees, Chapter 175/185 funds applied, court fines and miscellaneous revenue. For the year ended September 30, 2015, the contributions paid were City \$153,014,791, employees \$10,469,643, Chapter \$5,288,926 and court fines \$920,774.

### **Investments**

*Investment policy.* The pension plan's policy for the allocation of invested assets is established by a majority vote of the Board. The Board pursues an investment strategy that reduces risk through the prudent diversification of the portfolio across a broad selection of distinct asset classes. The selection of asset classes is limited by statute and each asset class is further diversified by style, and the use of both active and passive management. The policy discourages the use of cash equivalents, except for liquidity purposes, and refrains from dramatically shifting asset class allocations over short time spans. The following is the Board's asset allocation policy:

| <u>Asset Class</u>   | <u>Target Allocation</u> | <u>Guidelines</u> |
|----------------------|--------------------------|-------------------|
| Domestic equity      | 35.0%                    | 30.0-40.0%        |
| International equity | 20.0                     | 15.0-25.0         |
| Fixed income         | 22.5                     | 17.5-27.5         |
| Real estate          | 15.0                     | 10.0-20.0         |
| Cash                 | 0.0                      | 0.0-20.0          |
| MLPs/Energy          | <u>7.5</u>               | <u>2.5- 9.5</u>   |
| Total                | 100.0%                   | 100.0%            |

*Method used to value investments.* Investments are reported at fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. The real estate portfolio is valued at fair value independent appraisal of every property in the portfolio at least annually. In addition, each month, the money managers calculate an internal appraisal using a combination of discounted cash flow and comparison to similar properties. Investments in local real estate are valued each year on September 30 by an independent appraiser to determine the investment fair value.

*Rate of return.* For the year ended September 30, 2015, the annual money-weighted rate of return on pension plan investments was -3.95%. This reflects the changing amounts actually invested.

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Accounting for Pension Costs and Liabilities

#### **Reserve Accounts**

Ordinance 2015-304E maintains certain reserve accounts. These are, as of September 30, 2015, City Budget Stabilization Account of \$5,085,293, Enhanced Benefit Account of \$5,118,623 and Unfunded Actuarial Liability Payment Account of \$82,607,122.. The City Budget Stabilization Account and the Unfunded Actuarial Liability Payment Account provide additional City contributions. The Enhanced Benefit Account is used by the Board to pay a retiree holiday bonus and for other future enhancements, including a share plan.

#### **Deferred Retirement Option Program (DROP)**

DROP after 20 Years of Service. Maximum period 5 years. 8.4% annual interest credited. The DROP balance as of September 30, 2015 is \$290,493,870.

**Actuarial assumptions.** The actuarial assumptions used in the October 1, 2015 valuation were based on the results of an actuarial experience study for the period October 1, 2011 – September 30, 2015.

|                            |                                  |
|----------------------------|----------------------------------|
| Inflation                  | 2.5 percent                      |
| Salary increases           | 3.5 percent, including inflation |
| Investment (discount rate) | 7.0 percent, including inflation |
| COLA                       | 3.0 percent, compounded annually |

Mortality rates were based on the RP-2014 Blue Collar, age set forward 2 years for males and 1 year for females, with MP-2014 Improvement Scale, generational, sex distinct.

The expected arithmetic real rate of return was determined for each major asset class. These are combined to produce the 7.0 percent expected rate of return, or discount rate, by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation (diversification and volatility also impact this).

| <u>Asset Class</u>   | <u>Long-Term Expected<br/>Real Rate of Return<br/>(gross less 2.5% inflation)</u> |
|----------------------|-----------------------------------------------------------------------------------|
| Domestic equity      | 5.4%                                                                              |
| International equity | 5.5                                                                               |
| Fixed income         | 1.3                                                                               |
| Real estate          | 4.5                                                                               |
| Cash                 | 1.4                                                                               |
| MLPs/Energy          | 5.5                                                                               |

## JACKSONVILLE POLICE AND FIRE PENSION FUND

### Accounting for Pension Costs and Liabilities

#### **Net Pension Liability of the City of Jacksonville as of September 30, 2014**

|                              |                 |
|------------------------------|-----------------|
| Total pension liability      | \$3,142,228,212 |
| Plan fiduciary net position  | \$1,341,094,047 |
| City's net pension liability | \$1,801,134,165 |

|                                                                                  |        |
|----------------------------------------------------------------------------------|--------|
| Plan fiduciary net position<br>as a percentage of the<br>total pension liability | 42.68% |
|----------------------------------------------------------------------------------|--------|

#### **Sensitivity of the Net Pension Liability to Changes in the Discount Rate**

The following presents the net pension liability of the City of Jacksonville, calculated using the discount rate of 7.0%, as well as what the City of Jacksonville's net pension liability would be if it were calculated using a discount rate that is 1% lower (6%) or 1% higher (8%) than the current rate:

|                                              | 1%<br>Decrease<br>(6%) | Current<br>Discount<br>(7%) | 1%<br>Increase<br>(8%) |
|----------------------------------------------|------------------------|-----------------------------|------------------------|
| City of Jacksonville's net pension liability | \$2,205,005,851        | \$1,801,134,165             | \$1,537,813,679        |

#### **Changes**

1. Ordinance 2015-304E made several small cutbacks in the current Plan provisions (Group I), increased employee contributions, added supplemental employer contributions above the ARC and added a more moderate Pension Plan for new hires after June 19, 2015. None of these new hires (Group II) were reported for this valuation. The provisions of Groups I and II are shown on pages 6 and 7 of this report.
2. A four year experience study was performed for the period ending September 30, 2015. Mortality improvements are now projected and relatively small changes were made in salary and termination assumptions. These changes are described on page 5.

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Statement of Changes in Fiduciary Plan Net Position as of September 30, 2014 and 2015

|                                                              | <u>2014</u>                             | <u>2015</u>                             |
|--------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| <b><u>Additions</u></b>                                      |                                         |                                         |
| Contributions                                                |                                         |                                         |
| Employer                                                     | \$150,520,270                           | \$154,664,523 <sup>1</sup>              |
| Plan Members                                                 | <u>11,583,565</u>                       | <u>12,061,321</u> <sup>2</sup>          |
|                                                              | 162,103,835                             | 166,725,844                             |
| Other Additions                                              |                                         |                                         |
| Chapter 175/185                                              | 10,110,492                              | 10,577,853                              |
| Court fines and penalties                                    | 881,291                                 | 920,774                                 |
| Grant - Dept of Energy                                       | 12,960                                  | 0                                       |
| Miscellaneous                                                | <u>141,856</u>                          | <u>327,418</u>                          |
|                                                              | 11,146,599                              | 11,826,045                              |
| Investment income                                            |                                         |                                         |
| Parking and rental revenue                                   | 529,056                                 | 636,085                                 |
| Investment income & realized gains                           | 172,478,679                             | 69,740,178                              |
| Unrealized Gains (Losses)                                    | <u>(18,158,544)</u>                     | <u>(125,978,848)</u>                    |
|                                                              | 154,849,191                             | (55,602,585)                            |
| Less investment expense                                      | 7,640,438                               | 7,697,756                               |
| Less parking and rental expense                              | <u>257,977</u>                          | <u>230,952</u>                          |
| Net investment income                                        | 146,950,776                             | (63,531,293)                            |
| Securities Lending                                           |                                         |                                         |
| Revenues                                                     | 483,340                                 | 862,008                                 |
| Expenses                                                     | <u>(101,318)</u>                        | <u>(215,349)</u>                        |
|                                                              | 382,022                                 | 646,659                                 |
| <br>Total additions                                          | <br>320,583,232                         | <br>115,667,255                         |
| <b><u>Deductions</u></b>                                     |                                         |                                         |
| Pension benefit payments                                     | 111,424,048                             | 119,548,310                             |
| DROP payments and RLA interest <sup>3</sup>                  | 26,386,788                              | 28,675,706                              |
| Refund of contributions                                      | 368,347                                 | 404,460                                 |
| Lighting change out - DOE Grant                              | 12,960                                  | 0                                       |
| Administrative expense                                       | <u>2,224,248</u>                        | <u>2,228,452</u>                        |
| Total deductions                                             | 140,416,391                             | 150,856,928                             |
| <br>Net increase                                             | <br>180,166,841                         | <br>(35,189,673)                        |
| <br><b>Net assets held in trust for<br/>pension benefits</b> | <br><u>\$1,473,097,052</u> <sup>4</sup> | <br><u>\$1,437,907,379</u> <sup>5</sup> |

<sup>1</sup> Includes \$1,649,732 for employer pension transfers in FY15.

<sup>2</sup> Includes \$1,493,802 in buybacks, \$97,876 in GEEP transfers and \$824,096 in 2% DROP contributions.

<sup>3</sup> Includes payments to DROP accounts, 8.4% interest on DROP account balances and on RLA balances.

<sup>4</sup> Includes individual DROP account and RLA balances of \$269,054,863 as of September 30.

<sup>5</sup> Includes individual DROP account and RLA balances of \$290,493,870 as of September 30.

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Statement of Fiduciary Plan Net Position as of September 30, 2014 and 2015

|                                                          | <u>2014</u>            | <u>2015</u>            |
|----------------------------------------------------------|------------------------|------------------------|
| <b><u>Assets</u></b>                                     |                        |                        |
| Cash and short-term investments                          | \$17,287,791           | \$6,960,201            |
| Due from City of Jacksonville                            | 4,426,500              | 4,746,215              |
| Recoverable taxes                                        | 102,062                | 91                     |
| Prepaid items                                            | 64,025                 | 113,770                |
| Investments, at fair value                               |                        |                        |
| Fixed Income Securities                                  | 310,860,878            | 314,236,566            |
| Equities                                                 | 987,833,492            | 936,723,452            |
| Accrued Interest                                         | 1,049,040              | 1,186,646              |
| Dividends receivable                                     | 541,974                | 1,046,428              |
| Real Estate                                              | 154,659,253            | 172,947,380            |
| Property, Plant and Equipment                            |                        |                        |
| Furniture and equipment                                  | 311,510                | 295,130                |
| Accumulated depreciation                                 | (282,328)              | (277,448)              |
| Building                                                 |                        | 7,368,742              |
| Accumulated depreciation                                 |                        | (3,248,742)            |
| Securities Lending Collateral                            | 125,067,205            | 150,693,674            |
| Other receivables                                        | <u>107,876</u>         | <u>155,038</u>         |
| Total assets                                             | 1,602,029,278          | 1,592,947,143          |
| <b><u>Liabilities</u></b>                                |                        |                        |
| Accounts payable                                         | 1,967,458              | 1,767,515              |
| Accrued wages payable                                    | 1,514,432              | 2,249,618              |
| Current portion long term liabilities                    | 135,259                | 141,153                |
| Other long term liabilities                              | 31,869                 | 35,324                 |
| OPEB GASB #45                                            | 42,189                 | 50,965                 |
| Securities Lending Obligations                           | 125,067,205            | 150,693,673            |
| Other liabilities                                        | <u>173,814</u>         | <u>101,516</u>         |
| Total liabilities                                        | 128,932,226            | 155,039,764            |
| <b>Net assets held in trust for<br/>pension benefits</b> | <u>\$1,473,097,052</u> | <u>\$1,437,907,379</u> |

Includes employee contributions of \$88,343,034 on September 30, 2015.

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Schedule of Changes in Net Pension Liability and Related Ratios

|                                                                                   | 2015                   | 2014                   | 2013                   | 2012                   | 2011          |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|---------------|
| <b>Total pension liability</b>                                                    |                        |                        |                        |                        |               |
| Service Cost (BOY)                                                                | \$46,662,780           | \$47,915,012           | \$46,109,290           | \$47,569,761           | PRIOR         |
| Interest on total pension liability                                               | \$210,942,612          | \$203,577,435          | \$195,519,742          | \$190,343,631          | INFORMATION   |
| Changes of benefit terms                                                          | (\$28,684,960)         | \$0                    | \$0                    | \$0                    | NOT AVAILABLE |
| Experience deviations including buybacks                                          | \$24,831,339           | \$22,671,112           | (\$4,675,994)          | (\$12,512,641)         |               |
| Changes due to reallocation                                                       | \$24,514,349           | \$0                    | \$5,332,605            | \$227,333,255          |               |
| Benefit payments, including refunds of member contributions                       | (\$148,628,476)        | (\$138,179,183)        | (\$128,655,957)        | (\$116,955,126)        |               |
| <b>Net change in total pension liability</b>                                      | <b>\$129,637,644</b>   | <b>\$135,984,376</b>   | <b>\$113,629,686</b>   | <b>\$335,778,880</b>   |               |
| <b>Total pension liability -- beginning</b>                                       | <b>\$3,012,590,568</b> | <b>\$2,876,606,192</b> | <b>\$2,762,976,506</b> | <b>\$2,427,197,626</b> |               |
| <b>Total pension liability -- ending(a)</b>                                       | <b>\$3,142,228,212</b> | <b>\$3,012,590,568</b> | <b>\$2,876,606,192</b> | <b>\$2,762,976,506</b> |               |
| <b>Plan fiduciary net position</b>                                                |                        |                        |                        |                        |               |
| Contributions--employer                                                           | \$153,014,791          | \$148,277,368          | \$121,822,333          | \$69,828,557           |               |
| Contributions--member                                                             | \$10,469,643           | \$10,067,765           | \$9,682,998            | \$11,204,317           |               |
| Buybacks and transfers--employer                                                  | \$1,649,732            | \$2,242,902            | \$0                    | \$2,814,296            |               |
| Buybacks and transfers--member                                                    | \$1,591,678            | \$1,515,800            | \$1,070,503            | \$406,553              |               |
| Net investment income                                                             | (\$63,531,293)         | \$146,950,776          | \$169,202,439          | \$181,653,432          |               |
| Securities Lending                                                                | \$646,659              | \$382,022              |                        |                        |               |
| Benefit payments, including refunds of member contributions                       | (\$148,628,476)        | (\$138,179,183)        | (\$128,655,957)        | (\$116,955,126)        |               |
| Administrative expense                                                            | (\$2,228,452)          | (\$2,224,248)          | (\$2,505,985)          | (\$2,351,598)          |               |
| Chapter 175/185                                                                   | \$10,577,853           | \$10,110,493           | \$9,667,185            | \$9,275,728            |               |
| Court Fines                                                                       | \$920,774              | \$881,291              | \$757,984              | \$770,125              |               |
| Other                                                                             | \$327,418              | \$141,855              | \$1,187,289            | \$55,383               |               |
| <b>Net change in plan fiduciary net position</b>                                  | <b>(\$35,189,673)</b>  | <b>\$180,166,841</b>   | <b>\$182,228,789</b>   | <b>\$156,701,667</b>   |               |
| <b>Plan fiduciary net position -- beginning</b>                                   | <b>\$1,473,097,052</b> | <b>\$1,292,930,211</b> | <b>\$1,110,737,208</b> | <b>\$954,035,541</b>   |               |
| <b>Plan fiduciary net position -- ending</b>                                      | <b>\$1,437,907,379</b> | <b>\$1,473,097,052</b> | <b>\$1,292,965,997</b> | <b>\$1,110,737,208</b> |               |
| less Reserve Accounts and Sr. Staff Assets                                        | (\$96,813,332)         | (\$83,349,437)         | (\$64,834,813)         | (\$31,830,621)         |               |
| <b>Total Plan fiduciary net position -- ending(b)</b>                             | <b>\$1,341,094,047</b> | <b>\$1,389,747,615</b> | <b>\$1,228,131,184</b> | <b>\$1,078,906,587</b> |               |
| <b>City's net pension liability--ending(a)-(b)</b>                                | <b>\$1,801,134,165</b> | <b>\$1,622,842,953</b> | <b>\$1,648,475,008</b> | <b>\$1,684,069,919</b> |               |
| <b>Plan fiduciary net position as a percentage of the total pension liability</b> | <b>42.68%</b>          | <b>46.13%</b>          | <b>42.69%</b>          | <b>39.05%</b>          |               |
| <b>Covered-employee payroll</b>                                                   | <b>\$132,735,243</b>   | <b>\$134,521,216</b>   | <b>\$130,972,174</b>   | <b>\$133,611,459</b>   |               |
| <b>City's net pension liability as a percentage of covered-employee payroll</b>   | <b>1356.94%</b>        | <b>1206.38%</b>        | <b>1258.65%</b>        | <b>1260.42%</b>        |               |



# JACKSONVILLE POLICE AND FIRE PENSION FUND

## Schedule of City Contributions

| <u>FYE</u> | <u>Actuarially<br/>required City<br/>contribution</u> | <u>Contribution in<br/>relation to the<br/>actuarially determined<br/>contribution</u> | <u>Contribution<br/>deficiency (excess) *</u> | <u>Covered<br/>employee<br/>payroll</u> | <u>Contribution as a<br/>percentage of covered<br/>employee payroll</u> |
|------------|-------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|
| 2015       | \$ 153,603,996                                        | \$ 153,935,565                                                                         | \$ (331,569)                                  | \$ 132,735,243                          | 115.97%                                                                 |
| 2014       | \$ 142,432,577                                        | \$ 149,158,659                                                                         | \$ (6,726,082)                                | \$ 134,521,216                          | 110.88%                                                                 |
| 2013       | \$ 99,996,835                                         | \$ 122,580,317                                                                         | \$ (22,583,482)                               | \$ 130,972,174                          | 93.59%                                                                  |
| 2012       | \$ 73,729,000                                         | \$ 70,598,682                                                                          | \$ 3,130,318                                  | \$ 133,611,459                          | 52.84%                                                                  |
| 2011       | \$ 77,065,314                                         | \$ 75,902,934                                                                          | \$ 1,162,380                                  | \$ 148,967,906                          | 50.95%                                                                  |
| 2010       | \$ 77,182,058                                         | \$ 82,196,878                                                                          | \$ (5,014,820)                                | \$ 158,046,680                          | 52.01%                                                                  |
| 2009       | \$ 50,564,207                                         | \$ 50,234,759                                                                          | \$ 329,448                                    | \$ 155,557,729                          | 32.29%                                                                  |
| 2008       | \$ 48,806,879                                         | \$ 48,364,103                                                                          | \$ 442,776                                    | \$ 148,276,743                          | 32.62%                                                                  |
| 2007       | \$ 39,849,713                                         | \$ 44,207,970                                                                          | \$ (4,358,257)                                | \$ 143,006,154                          | 30.91%                                                                  |
| 2006       | \$ 38,230,061                                         | \$ 36,124,465                                                                          | \$ 2,105,596                                  | \$ 134,694,392                          | 26.82%                                                                  |
| 2005       | \$ 35,929,120                                         | \$ 27,175,819                                                                          | \$ 8,753,301                                  | \$ 130,392,284                          | 20.84%                                                                  |

\* Contribution deficiency (excess) is assigned to the City Budget Stabilization Account

### Notes to Schedule

Valuation date Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods used to determine contributions rates:

|                                |                                                                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Actuarial cost method:         | Individual entry age                                                                                                                          |
| Amortization method:           | Constant percentage of payroll increasing 3.25% annually; Closed                                                                              |
| Remaining amortization period: | averaging 21 years                                                                                                                            |
| Asset valuation method:        | Market Value                                                                                                                                  |
| Inflation:                     | 2.5%                                                                                                                                          |
| Salary increases:              | 3.5%, including inflation                                                                                                                     |
| Investment rate of return:     | 7.0%, including inflation                                                                                                                     |
| Cost of living adjustments:    | 3.0%, compounded annually                                                                                                                     |
| Mortality Table in use         | RP-2014, Blue Collar, age set forward 2 years for males and 1 year for females, with MP-2014 Improvement Scale, generational, separate by sex |
| Age differences for spouses:   | Females are assumed to be 3 years younger than males                                                                                          |
| Percent married                | Assume 75% of active employees are married, use tax reported status for inactive                                                              |

JACKSONVILLE POLICE AND FIRE PENSION FUND

Schedule of Investment Returns

Annual Money-Weighted Rate of Return, Net of Investment Expenses

| <u>FYE</u> | <u>%</u> |
|------------|----------|
| 2015       | -3.95%   |
| 2014       | 10.73%   |
| 2013       | 14.29%   |
| 2012       | 18.25%   |
| 2011       | 0.64%    |
| 2010       | 8.45%    |
| 2009       | 1.70%    |
| 2008       | -13.07%  |
| 2007       | 15.05%   |
| 2006       | 8.18%    |
| 2005       | 10.77%   |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## GASB 68 Pension Expense

|                                                          | <u>FYE2015</u>       |
|----------------------------------------------------------|----------------------|
| Service Cost (BOY)                                       | \$54,360,536         |
| Employee Contributions                                   | (\$10,469,643)       |
| 7% Interest on Accrued Liabilities<br>plus Normal Cost   | \$214,050,718        |
| Expected 7% Interest on Net Assets                       | (\$95,579,458)       |
| Non Investment Expense                                   | \$2,228,452          |
| Current period recognition of deferred outflow/(inflows) |                      |
| Change of benefit terms                                  | (\$28,684,960)       |
| Non-investment actuarial experience                      | \$5,761,332          |
| Actual investment experience                             | \$31,875,499         |
| Assumption changes reallocation                          | <u>\$5,687,784</u>   |
| <b>TOTAL</b>                                             | <b>\$179,230,260</b> |

## Future fiscal years outflows(inflows) to be recognized

|      | <u>Non-investment<br/>Actuarial<br/>Experience</u> | <u>Actual<br/>Investment<br/>Experience</u> | <u>Assumption<br/>Changes</u> | <u>TOTAL</u>        |
|------|----------------------------------------------------|---------------------------------------------|-------------------------------|---------------------|
| 2016 | \$5,761,332                                        | \$31,875,499                                | \$5,687,784                   | \$43,324,615        |
| 2017 | \$5,761,332                                        | \$31,875,499                                | \$5,687,784                   | \$43,324,615        |
| 2018 | \$5,761,332                                        | \$31,875,499                                | \$5,687,784                   | \$43,324,615        |
| 2019 | <u>\$1,786,011</u>                                 | <u>\$31,875,499</u>                         | <u>\$1,763,213</u>            | <u>\$35,424,723</u> |
|      | \$19,070,007                                       | \$127,501,996                               | \$18,826,565                  | \$165,398,568       |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

A. Participant Data See pages 9 and 10

B. Assets See page 16.

C. Liabilities

|                                           | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br><u>Ordinance 304E</u> | 10/01/2015<br>before 3<br>Assumption<br><u>Changes</u> | 10/01/2015<br>after 3<br>Assumption<br><u>Changes</u> |
|-------------------------------------------|-----------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Present Value of Future<br>Benefits for:  |                                   |                                             |                                                        |                                                       |
| Retirement Benefits                       | \$1,124,661,272                   | \$1,087,609,090                             | \$1,085,262,377                                        | \$1,048,845,058                                       |
| Death Benefits                            | \$10,217,144                      | \$10,100,000                                | \$9,981,951                                            | \$11,791,645                                          |
| Disability Benefits                       | \$20,765,600                      | \$20,765,600                                | \$20,587,602                                           | \$21,051,900                                          |
| Withdrawal Benefits                       | \$15,053,979                      | \$14,752,899                                | \$14,977,340                                           | \$21,628,941                                          |
| Return of Contributions                   | <u>\$444,967</u>                  | <u>\$453,866</u>                            | <u>\$468,925</u>                                       | <u>\$594,094</u>                                      |
| Total Active                              | \$1,171,142,962                   | \$1,133,681,455                             | \$1,131,278,195                                        | \$1,103,911,638                                       |
| Terminated Vested                         | \$15,998,385                      | \$15,998,385                                | \$18,999,448                                           | \$19,207,665                                          |
| Retirees and Beneficiaries                | \$1,448,819,684                   | \$1,448,819,684                             | \$1,547,953,327                                        | \$1,568,585,051                                       |
| Disabled                                  | \$25,657,666                      | \$25,657,666                                | \$25,601,768                                           | \$27,520,962                                          |
| DROPs                                     | <u>\$766,443,503</u>              | <u>\$766,443,503</u>                        | <u>\$793,128,450</u>                                   | <u>\$794,104,419</u>                                  |
| Total Inactive                            | \$2,256,919,238                   | \$2,256,919,238                             | \$2,385,682,993                                        | \$2,409,418,097                                       |
| Total Present Value of<br>Future Benefits | \$3,428,062,200                   | \$3,390,600,693                             | \$3,516,961,188                                        | \$3,513,329,735                                       |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

### D. Actuarial Present Value of Accumulated Plan Benefits

|           | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br><u>Ordinance 304E</u> | 10/01/2015<br>before 3<br>Assumption<br><u>Changes</u> | 10/01/2015<br>after 3<br>Assumption<br><u>Changes</u> |
|-----------|-----------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Active    |                                   |                                             |                                                        |                                                       |
| Vested    | \$572,265,943                     | \$552,236,638                               | \$549,058,677                                          | \$550,539,923                                         |
| Nonvested | \$14,111,489                      | \$13,123,685                                | \$14,822,835                                           | \$14,843,924                                          |
| Inactive  | <u>\$2,256,919,238</u>            | <u>\$2,256,919,238</u>                      | <u>\$2,385,682,993</u>                                 | <u>\$2,409,418,097</u>                                |
| Total     | \$2,843,296,670                   | \$2,822,279,561                             | \$2,949,564,505                                        | \$2,974,801,944                                       |

### Change in Actuarial Present Value of Accumulated Plan Benefits

|                                                                                                         |                 |
|---------------------------------------------------------------------------------------------------------|-----------------|
| 1. Actuarial Present Value of Accumulated Plan Benefits as of October 1, 2014.                          | \$2,843,296,670 |
| 2. Less Ordinance 2015-304E reduction                                                                   | \$21,017,109    |
| 3. Less benefit payments and refunds for the period 10/1/2014-9/30/2015                                 | \$148,628,476   |
| 4. Increase due to 7.0% yield assumption.                                                               | \$192,445,554   |
| 5. Plus additional benefit accruals for the period 10/1/2014-9/30/2015, including experience deviations | \$108,705,305   |
| 6. Actuarial Present Value of Accumulated Plan Benefits as of October 1, 2015.                          | \$2,974,801,944 |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

### E. Entry Age Normal Actuarial Accrued Liability

|                                                       | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br>Ordinance 304E | 10/01/2015<br>before 3<br>Assumption<br>Changes | 10/01/2015<br>after 3<br>Assumption<br>Changes |
|-------------------------------------------------------|-----------------------------------|--------------------------------------|-------------------------------------------------|------------------------------------------------|
| Actives                                               |                                   |                                      |                                                 |                                                |
| Retirement Benefits                                   | \$741,353,482                     | \$713,212,021                        | \$711,824,999                                   | \$715,438,203                                  |
| Death Benefits                                        | \$3,174,099                       | \$3,053,612                          | \$3,075,138                                     | \$4,065,258                                    |
| Disability Benefits                                   | \$8,655,379                       | \$8,326,825                          | \$8,563,420                                     | \$9,145,244                                    |
| Withdrawal Benefits                                   | \$3,011,239                       | \$2,896,934                          | \$2,976,076                                     | \$4,965,203                                    |
| Return of Contributions                               | <u>-\$522,869</u>                 | <u>-\$503,020</u>                    | <u>-\$492,151</u>                               | <u>-\$803,793</u>                              |
| Total Actives                                         | \$755,671,330                     | \$726,986,370                        | \$725,947,482                                   | \$732,810,115                                  |
| Total Inactives                                       | \$2,256,919,238                   | \$2,256,919,238                      | \$2,385,682,993                                 | \$2,409,418,097                                |
| Total Entry Age Normal<br>Actuarial Accrued Liability | \$3,012,590,568                   | \$2,983,905,608                      | \$3,111,630,475                                 | \$3,142,228,212                                |

### F. Entry Age Normal Cost

|                         | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br>Ordinance 304E | 10/01/2015<br>before 3<br>Assumption<br>Changes | 10/01/2015<br>after 3<br>Assumption<br>Changes |
|-------------------------|-----------------------------------|--------------------------------------|-------------------------------------------------|------------------------------------------------|
| Actives Only            |                                   |                                      |                                                 |                                                |
| Retirement Benefits     | \$43,926,766                      | \$43,048,230                         | \$42,535,636                                    | \$39,586,664                                   |
| Death Benefits          | \$803,023                         | \$786,963                            | \$785,731                                       | \$930,836                                      |
| Disability Benefits     | \$1,378,427                       | \$1,350,858                          | \$1,369,715                                     | \$1,406,975                                    |
| Withdrawal Benefits     | \$1,395,456                       | \$1,367,547                          | \$1,373,630                                     | \$1,994,893                                    |
| Return of Contributions | <u>\$111,410</u>                  | <u>\$109,182</u>                     | <u>\$109,476</u>                                | <u>\$167,721</u>                               |
| Total                   | \$47,615,082                      | \$46,662,780                         | \$46,174,188                                    | \$44,087,089                                   |

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

### G. Pension Cost

|                                                                 | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br><u>Ordinance 304E</u> | 10/01/2015<br>before 3<br>Assumption<br><u>Changes</u> | 10/01/2015<br>after 3<br>Assumption<br><u>Changes</u> |
|-----------------------------------------------------------------|-----------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Normal Actuarial Cost                                           | \$57,479,768                      | \$56,527,466                                | \$56,100,396                                           | \$54,013,297                                          |
| Minimum Payment to<br>Amortize UAAL                             | \$111,578,279                     | \$110,106,109                               | \$121,319,760                                          | \$123,070,241                                         |
| Expected Contributions From Active Employees                    |                                   |                                             |                                                        |                                                       |
| Dollar Amount                                                   | \$9,416,485                       | \$10,761,697                                | \$10,618,819                                           | \$10,618,819                                          |
| % of Covered Payroll                                            | 7.00%                             | 8.00%                                       | 8.00%                                                  | 8.00%                                                 |
| Expected Contributions From City (includes interest adjustment) |                                   |                                             |                                                        |                                                       |
| Dollar Amount                                                   | \$159,338,591                     | \$155,496,692                               | \$166,952,572                                          | \$166,513,289                                         |
| % of Covered Payroll                                            | 118.45%                           | 113.66%                                     | 125.78%                                                | 125.45%                                               |
| Expected DROP Contributions                                     |                                   |                                             |                                                        |                                                       |
| Dollar Amount                                                   | \$780,223                         | \$748,771                                   | \$791,426                                              | \$791,426                                             |
| % of Covered Payroll                                            | 0.58%                             | 0.55%                                       | 0.59%                                                  | 0.59%                                                 |
| Expected Contributions From Other Sources*                      |                                   |                                             |                                                        |                                                       |
| Dollar Amount                                                   | \$6,268,689                       | \$6,209,701                                 | \$6,209,701                                            | \$6,209,701                                           |
| % of Covered Payroll                                            | 4.66%                             | 4.62%                                       | 4.68%                                                  | 4.68%                                                 |

\*The sources include 50% Chapter 175/185 monies in last 3 columns, court fines and penalties.

### H. Past Contributions

Expected contributions for Plan Year ending September 30, 2015. See G. above. Actual contributions for Plan Year ending September 30, 2014 - See page 15.

# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

### I. Net Actuarial Gain (Loss)

For period ended 09/30/2015 – (\$213,198,649)

### J. Present Value of

|                                            | 10/01/2014<br>Actuarial<br>Report | 10/01/2014<br>with<br><u>Ordinance 304E</u> | 10/01/2015<br>before 3<br>Assumption<br>Changes | 10/01/2015<br>after 3<br>Assumption<br>Changes |
|--------------------------------------------|-----------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------------------------|
| Future Salaries                            | \$1,176,660,400                   | \$1,176,660,400                             | \$1,167,521,500                                 | \$1,115,730,900                                |
| Future City Contributions                  | \$1,894,291,350                   | \$1,860,971,465                             | \$2,018,662,791                                 | \$2,024,127,934                                |
| Future Active Employee<br>Contributions    | \$82,366,228                      | \$94,132,832                                | \$93,401,720                                    | \$89,258,472                                   |
| Future DROP Contributions                  | \$6,824,630                       | \$6,549,518                                 | \$6,961,278                                     | \$6,652,479                                    |
| Future Contributions from Other<br>Sources | \$54,832,378                      | \$54,316,408                                | \$54,619,702                                    | \$52,196,803                                   |

### K. Derivation of Costs on Current Plan Basis

See page 1.

### L. Statement by Enrolled Actuary

See Cover Letter.

### M. Age/Service Distribution of Active Employees

See page 10.



# JACKSONVILLE POLICE AND FIRE PENSION FUND

## State of Florida Information

### N. (i) Three-Year Comparison of Actual and Assumed Salary Increases

| <u>Year Ended</u> | <u>Actual</u> | <u>Assumed</u> |
|-------------------|---------------|----------------|
| 09/30/15          | 3.8%          | 3.5%           |
| 09/30/14          | 3.0%          | 4.0%           |
| 09/30/13          | 2.9%          | 4.0%           |

### (ii) Three-Year Comparison of Net Investment Returns

| <u>Year Ended</u> | <u>Market Value</u> | <u>Assumed</u> |
|-------------------|---------------------|----------------|
| 09/30/15          | -3.95%              | 7.00%          |
| 09/30/14          | 10.73%              | 7.00%          |
| 09/30/13          | 14.29%              | 7.75%          |

### (ii) Average Annual Growth in Payroll, last 10 Years

| <u>Valuation Date</u>               | <u>Covered Valuation Payroll</u> |
|-------------------------------------|----------------------------------|
| 10/01/2005                          | \$130,392,283                    |
| 10/01/2006                          | \$134,694,392                    |
| 10/01/2007                          | \$143,006,154                    |
| 10/01/2008                          | \$148,276,743                    |
| 10/01/2009                          | \$155,557,729                    |
| 10/01/2010                          | \$158,046,680                    |
| 10/01/2011                          | \$148,967,906                    |
| 10/01/2012                          | \$133,611,459                    |
| 10/01/2013                          | \$130,972,174                    |
| 10/01/2014                          | \$134,521,216                    |
| 10/01/2015                          | \$132,735,243                    |
| Total % Increase                    | 1.80%                            |
| Annual % Increase (10 year average) | 0.18%                            |

### O. Benefits and Expenses of Plans not Explicitly or Implicitly Provided for in Valuation

None.

### P. Trends Not Taken Into Account But Which Are Likely to Result in Future Cost Increases

None.