## Indiana Public Retirement System

Pension Relief Fund

Actuarial Valuation as of J anuary 1, 2017

PWC

May 19, 2017
Board of Trustees
Indiana Public Retirement System
1 North Capitol, Suite 001
Indianapolis, IN 46204

## Re: Certification of the Actuarial Valuation for the Pension Relief Fund as of J anuary 1, 2017

Dear Board of Trustees ("Board"):

We are pleased to present the results of our actuarial analysis as of J anuary 1, 2017 of the 1925 Police Pension Fund, the 1937 Firefighters Pension Fund and the 1953 Police Pension Fund (Indianapolis), pursuant to our engagement letter with the Indiana Public Retirement System ("INPRS"), dated J une 7, 2010 (as amended). This report is intended to provide the Board of Trustees ("Board") with the anticipated benefit distributions during 2017 for each municipality that is paying benefits to members of these Funds. This information will allow the Board to notify the State of the aggregate funding need for the Pension Relief Fund for 2017, as well as the allocation of funds to each participating municipality. This report is also intended to provide the Board with certain liability information for each municipality with ongoing obligations to members of the Old Police and Fire Funds.

Actuarial valuations are performed annually for the 1925 Police Pension Fund, the 1937 Firefighters Pension Fund, and the 1953 Police Pension Fund (Indianapolis), collectively referred to as the "Old Police and Fire Funds". Benefits to members of the Old Police and Fire Funds are funded on a pay-as-you-go basis by certain revenues and appropriations from the State of Indiana to the Pension Relief Fund. The Pension Relief Fund has been created within the Indiana Public Retirement System ("INPRS") and is administered by INPRS.

## Benefit Provisions

The benefit provisions reflected in this report are those which were in effect at J anuary 1, 2017, as set forth in IC 36-8-6, 36-8-7, and 36-8-7.5. It is our understanding that the only change to the benefit provisions since the 2016 valuation was an enhancement to the disability benefit provided in certain catastrophic disability circumstances, per 2017 House Enrolled Act No. 1617. This enhanced disability benefit is only available to members who previously elected to convert their participation to provisions equivalent to the 1977 Fund. The accrued liability and normal cost as of J anuary 1, 2017 reflect this plan change.

## Assets

The Old Police and Fire Funds are funded on a pay-as-you-go basis. The Pension Relief Fund is a temporary holding account for collecting State revenues and appropriations before funds are distributed to the local municipalities to assist them in paying benefits to retired members of the Old Police and Fire Funds.

## Member Data

The valuations were based on member census data as of J anuary 1, 2017. All member data was provided to us by INPRS. While certain checks for reasonableness were performed, the data was used unaudited. While the scope of our engagement did not call for us to perform an audit or independent verification of this information, we have reviewed this information for reasonableness. The accuracy of the results presented in the report is dependent upon the accuracy and completeness of the underlying census information.

## Actuarial Assumptions and Methods

The actuarial assumptions used in the J anuary 1, 2017 valuation were adopted by the Board pursuant to the experience study completed in April 2015, which reflect the experience period from J uly 1, 2010 to J une 30, 2014. The interest rate was updated to equal the Barclay's 20-year Municipal Bond Index rate as of the valuation date, the base mortality table assumption for disabled participants was changed to the RP-2014 Disabled mortality tables from the RP-2014 Blue Collar Healthy mortality tables, and an assumption as to the percentage of future disabilities who will qualify for the new enhanced disability benefit was added. All other assumptions are unchanged from the 2016 valuation.

The actuarial assumptions and methods are summarized in the Actuarial Assumptions and Methods section of the valuation report. We believe the actuarial assumptions and methods are reasonable for the purposes of the valuation report.

## Certification

We certify that the information presented herein is accurate and fairly portrays the anticipated cost of the Old Police and Fire Plans as of J anuary 1, 2017, based on the underlying census data provided, and assumptions and methods selected by the Board.

[^0]Subject to reliance on the data provided, all estimates are based on information available as of a point in time and are subject to ongoing unforeseen and random events. As such, any reported results must be viewed as having a likely range of variability from the estimate, both up and down. Differences between our estimates and actual results depend on the extent to which future experience conforms to the assumptions made for this analysis. It is certain that actual experience will not conform exactly to the assumptions used in this analysis. Although estimated amounts have not been rounded, no inference should be made regarding the precision of such results.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

To the best of our knowledge this actuarial statement is complete and accurate and has been prepared in accordance with generally accepted actuarial principles and practice and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with our understanding of the requirements of Indiana state law. The undersigned actuaries are members of the Society of Actuaries and other professional organizations, including the American Academy of Actuaries, and meet the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States relating to pension plans.

To the best of our knowledge, there is no relationship between the PwC practitioners involved in this engagement and INPRS that may impair our objectivity.

This report was prepared for the internal use of the Indiana Public Retirement System in connection with our actuarial determination of the contributions to the Pension Relief Fund by the State and distributions from the Pension Relief Fund to local municipalities during 2017. This report is not for reliance by any other person. This report is not intended to satisfy financial reporting requirements for INPRS, the State, or local municipalities under applicable standards from the Governmental Accounting Standards Board ("GASB"). PwC disclaims any contractual or other responsibility or duty of care to others based upon the services or deliverables provided in connection with this report.

The content of this document is limited to the matters specifically addressed herein and does not address any other potential tax consequences, or the potential application of tax penalties, to any matter other than as set forth herein. Our conclusions are not binding upon any taxing authority or the courts and there is no assurance that any relevant taxing authority will not successfully assert a contrary position. In addition, no exceptions (including the reasonable cause exception) are available for any federal or state penalties imposed if any portion of a transaction is determined to lack economic substance or fails to satisfy any similar rule of law, and our advice will not protect you from any such penalties. This document supersedes all prior written or oral advice with respect to the issues addressed in this document and all such prior communications should not be relied upon by any person for any purpose.

Respectfully submitted,


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## SECTIONI - EXECUTIVE SUMMARY

## HIGHLIGHTS OF THE ACTUARY'S REPORT

This report presents the results of the actuarial valuations of the 1925 Police Pension Fund, the 1937 Firefighters Pension Fund, and the 1953 Police Pension Fund (Indianapolis), collectively referred to as the "Old Police and Fire Funds", and has been prepared to present the anticipated pension distributions for the 2017 Plan Year, as well as certain liability information for the municipalities that have ongoing obligations to members of these Funds, in order to assist the INPRS Board of Trustees ("Board") with the administration of the Pension Relief Fund. The valuation was performed using census data for each Fund as of J anuary 1,2017 provided to us by INPRS and summarized in Section IV, the actuarial assumptions and methods selected by the Board and summarized in Section V, and the plan provisions effective J anuary 1, 2017 as summarized in Section VI.

## Anticipated Distributions

Anticipated benefit distributions to members of the Funds have decreased from $\$ 213.3$ million for calendar 2016 to $\$ 211.4$ million for calendar 2017. The decrease is primarily due to a decrease in the number of retired members and beneficiaries receiving benefits, partially offset by automatic cost-of-living increases to the remaining members. After truing up for a shortfall in Pension Relief Fund distributions under payment to the local municipalities through 2016, resulting from actual 2016 benefit payments being more than expected, the anticipated cost to the State of Indiana for calendar 2017 is $\$ 212.3$ million. It is anticipated that the State will deposit this amount into the Pension Relief Fund during 2017 in two installments; the first before J uly 1, 2017, and the second before October 1, 2017, per IC 5-10.3-11-4.7.

## Funded Status

The Old Police and Fire Funds are funded on a pay-as-you-go basis. The Pension Relief Fund is a temporary holding account for collecting State revenues and appropriations before funds are distributed to the local municipalities to assist them in paying benefits to retired members of the Old Police and Fire Funds.

## Cost-of-Living Adjustments

Non-Converted Benefits for retired members are increased annually based on increases in the first class salary paid by their last employer. There was a 3.1\% average increase in monthly benefits provided to retired members, disabled members, and beneficiaries during 2016. This compares to an assumed annual cost-of-living adjustment of $2.5 \%$.

Converted Benefits for retired members are increased annually based on increases in the CPI-U index. The increase is subject to a $3 \%$ maximum and $0 \%$ minimum. There is a $2.5 \%$ increase in monthly benefits scheduled for retired members, disabled members, and beneficiaries effective July 1, 2017. There was a $1.1 \%$ increase in monthly benefits provided to retired members, disabled members, and beneficiaries effective J uly 1, 2016. This compares to an assumed annual cost-of-living adjustment of $2.0 \%$.

## SECTIONI - EXECUTIVE SUMMARY

## HIGHLIGHTS OF THE ACTUARY'S REPORT

## Changes in Actuarial Assumptions

The interest rate assumption, which is set equal to the Barclay's 20-year Municipal Bond Index rate as of the valuation date, increased from $2.59 \%$ for the J anuary 1, 2016 valuation to $3.23 \%$ for the J anuary 1, 2017 valuation.

For disabled participants, the mortality assumption was updated to the RP-2014 Disabled mortality tables with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report, from the RP-2014 Healthy mortality tables with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report.

To incorporate the plan change in regards to House Enrolled Act Number 1617, $1 \%$ of future disabled participants are assumed to receive the enhanced benefit.
All other assumptions are the same as the J anuary 1, 2016 valuation.

## Changes in Actuarial Methods

There have been no changes in the actuarial methods since the J anuary 1, 2016 valuation.

## Changes in Plan Provisions

It is our understanding that the only change to the benefit provisions since the J anuary 1,2016 valuation was an enhancement to the disability benefit provided in certain catastrophic disability circumstances per 2017 House Enrolled Act No. 1617. This enhanced disability benefit is only available to members who previously elected to convert their participation to provisions equivalent to the 1977 Fund. A summary of the new disability benefit is below.

House Enrolled Act Number 1617 Enhanced Disability Benefit:
For catastrophic physical personal injuries that result in a degree of impairment of at least $67 \%$ and permanently prevents the member from performing any gainful work, the member will receive a disability benefit equal to $100 \%$ of base salary. Additionally, the benefit is increased by the increase in the base salary.

## SECTIONI - EXECUTIVE SUMMARY

## HISTORICAL SUMMARY

|  |  | J anuary 1, 2013 |  | J anuary 1, 2014 |  | J anuary 1, 2015 |  | J anuary 1, 2016 |  | J anuary 1, 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Census Information |  |  |  |  |  |  |  |  |  |  |
| Actives |  |  |  |  |  |  |  |  |  |  |
| Number |  | 110 |  | 100 |  | 80 |  | 64 |  | 52 |
| Average Age |  | 62.3 |  | 63.2 |  | 64.0 |  | 64.9 |  | 65.6 |
| Average Years of Service |  | 38.7 |  | 39.7 |  | 40.4 |  | 41.4 |  | 42.0 |
| Anticipated Payroll of Actives |  | 5,014,091 |  | 4,585,403 | \$ | 3,674,892 | \$ | 2,918,191 | \$ | 2,116,347 |
| Terminated Vested |  |  |  |  |  |  |  |  |  |  |
| Number |  | - |  | - |  | - |  | - |  | - |
| Average Age |  | - |  | - |  | - |  | - |  | - |
| Retiree/Beneficiary/ Disabled |  |  |  |  |  |  |  |  |  |  |
| Number |  | 8,109 |  | 7,860 |  | 7,638 |  | 7,416 |  | 7,195 |
| Average Age |  | 73.4 |  | 73.9 |  | 74.5 |  | 75.1 |  | 75.6 |
| Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |
| Total |  | 220,376,145 | \$ | 218,085,176 | \$ | 215,792,549 | \$ | 213,293,983 | \$ | 211,416,946 |
| Per Retiree/ Beneficiary/ Disabled |  | 27,177 | \$ | 27,746 | \$ | 28,252 | \$ | 28,761 | \$ | 29,384 |
| Actual Benefit Payments |  | 220,585,937 | \$ | 219,319,096 | \$ | 216,616,686 | \$ | 214,186,485 |  | TBD |

## SECTION I - EXECUTIVE SUMMARY

## HISTORICAL SUMMARY

|  | J anuary 1, 2013 |  | January 1, 2014 |  | J anuary 1, 2015 |  | J anuary 1, 2016 |  | J anuary 1, 2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Active | \$ | 65,815,194 | \$ | 73,619,549 | \$ | 71,294,423 | \$ | 60,184,457 | \$ | 46,503,117 |
| Terminated Vested |  | - |  | - |  | - |  | - |  | - |
| Retiree/ Beneficiary/ Disabled |  | 2,773,483,327 |  | 3,143,420,659 |  | 3,473,806,478 |  | 3,333,409,948 | \$ | 3,010,987,463 |
| Total | \$ | 2,839,298,521 | \$ | 3,217,040,208 | \$ | 3,545,100,901 | \$ | 3,393,594,405 | \$ | 3,057,490,580 |
| Normal Cost (beginning of year) | \$ | 1,159,550 | \$ | 1,863,935 | \$ | 2,249,813 | \$ | 1,728,956 | \$ | 989,357 |
| Summary of Assumptions |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate |  | 6.00\% |  | 4.31\% |  | 2.56\% |  | 2.59\% |  | 3.23\% |
| Salary Scale |  | 3.25\% |  | 3.25\% |  | 2.50\% |  | 2.50\% |  | 2.50\% |
| Cost-of-Living Assumption: Non-Converted |  | 3.25\% |  | 3.25\% |  | 2.50\% |  | 2.50\% |  | 2.50\% |
| Converted |  | 2.25\% |  | 2.25\% |  | 2.00\% |  | 2.00\% |  | 2.00\% |

## Pension Relief Distributions

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## A. Summary of 2017 Distributions

## Total

a. Actual Benefits Paid During Prior Year
b. Projected Benefits for Prior Year
c. True-Up [(a) - (b)]
d. Projected Benefits for Current Year
e. Preliminary Gross Pension Relief Distribution [(c) $+(\mathrm{d})$ ]
f. Adjustments
g. Gross Pension Relief Distribution [(e) +(f)]

## Old Police Pension Funds

a. Actual Benefits Paid During Prior Year
b. Projected Benefits for Prior Year
c. True Up [(a) - (b)]
d. Projected Benefits for Current Year
e. Preliminary Gross Pension Relief Distribution [(c) +(d)]
f. Adjustments
g. Gross Pension Relief Distribution [(e) +(f)]

## Old Firefighters' Pension Funds

a. Actual Benefits Paid During Prior Year
b. Projected Benefits for Prior Year
c. True Up [(a) - (b)]
d. Projected Benefits for Current Year
e. Preliminary Gross Pension Relief Distribution [(c) + (d)]
f. Adjustments
g. Gross Pension Relief Distribution [(e) +(f)]

| 2016 |  | 2017 |  |
| :---: | :---: | :---: | :---: |
| \$ | 216,616,686 | \$ | 214,186,485 |
|  | 215,792,549 |  | 213,293,983 |
|  | 824,137 |  | 892,502 |
|  | 213,293,983 |  | 211,416,946 |
|  | 214,118,120 |  | 212,309,448 |
|  |  |  |  |
| \$ | 214,118,120 | \$ | 212,309,448 |
| \$ | 111,335,982 | \$ | 109,641,182 |
|  | 110,520,113 |  | 109,582,699 |
|  | 815,869 |  | 58,483 |
|  | 109,582,699 |  | 108,932,951 |
|  | 110,398,568 |  | 108,991,434 |
|  | - |  | - |
| \$ | 110,398,568 | \$ | 108,991,434 |
| \$ | 105,280,704 | \$ | 104,545,303 |
|  | 105,272,436 |  | 103,711,284 |
|  | 8,268 |  | 834,019 |
|  | 103,711,284 |  | 102,483,995 |
|  | 103,719,552 |  | 103,318,014 |
|  | - |  | - |
| \$ | 103,719,552 | \$ | 103,318,014 |

B. Old Police Pension Funds

| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Actual Benefits | Projected | True-Up for 2016 | Projected | Net Pension Relief Distrib | Net Pension Relief Distrib | Net Pension Relief Distrib | 1/1/2017 Census Counts |  |
|  |  |  |  |  |  |  |  |  | Actives \& | Retirees/ |
| Employer | Employer | Paid | Benefits | Paid in 2017 | Benefits | During 2017 | in J une 2017 | in October 2017 | Terminated | Beneficiaries/ |
| Code | Name | During 2016 | During 2016 | (c) - (d) | During 2017 | (e) + (f) | 50\% of (g) | (g) - (h) | Vesteds | Disableds |
| Distributions from Pension Relief Fund |  |  |  |  |  |  |  |  |  |  |
| 7700-100 | CITY OF ALEXANDRIA | 177,229.56 | 161,659.00 | 15,570.56 | 178,644.00 | 194,214.56 | 97,107.28 | 97,107.28 | 0 | 9 |
| 7701-100 | CITY OF ANDERSON | 2,719,161.38 | 2,721,342.00 | $(2,180.62)$ | 2,676,208.00 | 2,674,027.38 | 1,337,013.69 | 1,337,013.69 | 0 | 107 |
| 7702-100 | CITY OF ANGOLA | 144,950.59 | 166,429.00 | (21,478.41) | 135,590.00 | 114,111.59 | 57,055.80 | 57,055.79 | 0 | 4 |
| 7703-100 | CITY OF ATTICA | 41,920.62 | 41,572.00 | 348.62 | 43,559.00 | 43,907.62 | 21,953.81 | 21,953.81 | 0 | 2 |
| 7704-100 | CITY OF AUBURN | 67,840.44 | 66,933.00 | 907.44 | 68,258.00 | 69,165.44 | 34,582.72 | 34,582.72 | 0 | 3 |
| 7705-100 | CITY OF AURORA | 62,979.46 | 59,995.00 | 2,984.46 | 61,508.00 | 64,492.46 | 32,246.23 | 32,246.23 | 0 | 4 |
| 7706-100 | CITY OF BATESVILLE | 70,135.08 | 69,053.00 | 1,082.08 | 70,004.00 | 71,086.08 | 35,543.04 | 35,543.04 | 0 | 3 |
| 7707-100 | CITY OF BEDFORD | 496,482.64 | 488,873.00 | 7,609.64 | 484,742.00 | 492,351.64 | 246,175.82 | 246,175.82 | 0 | 21 |
| 7708-100 | CITY OF BEECH GROVE | 584,255.43 | 580,040.00 | 4,215.43 | 565,316.00 | 569,531.43 | 284,765.72 | 284,765.71 | 0 | 18 |
| 7709-100 | CITY OF BERNE | 12,104.40 | 11,855.00 | 249.40 | 12,178.00 | 12,427.40 | 6,213.70 | 6,213.70 | 0 | 1 |
| 7711-100 | CITY OF BLOOMINGTON | 1,244,853.31 | 1,247,765.00 | $(2,911.69)$ | 1,237,169.00 | 1,234,257.31 | 617,128.66 | 617,128.65 | 0 | 48 |
| 7712-100 | CITY OF BLUFFTON | 274,908.33 | 267,172.00 | 7,736.33 | 250,321.00 | 258,057.33 | 129,028.67 | 129,028.66 | 0 | 10 |
| 7713-100 | CITY OF BOONVILLE | 88,983.12 | 120,821.00 | $(31,837.88)$ | 121,082.00 | 89,244.12 | 44,622.06 | 44,622.06 | 1 | 4 |
| 7714-100 | CITY OF BRAZIL | 89,339.88 | 86,523.00 | 2,816.88 | 89,258.00 | 92,074.88 | 46,037.44 | 46,037.44 | 0 | 5 |
| 7715-100 | CITY OF BREMEN | 16,943.10 | 15,547.00 | 1,396.10 | 15,864.00 | 17,260.10 | 8,630.05 | 8,630.05 | 0 | 1 |
| 7716-100 | CITY OF BROWNSBURG | 282,501.00 | 277,809.00 | 4,692.00 | 269,038.00 | 273,730.00 | 136,865.00 | 136,865.00 | 0 | 9 |
| 7717-100 | CITY OF BUTLER | 17,686.24 | 17,479.00 | 207.24 | 17,813.00 | 18,020.24 | 9,010.12 | 9,010.12 | 0 | 1 |
| 7718-100 | CITY OF CANNELTON | 15,971.52 | 16,441.00 | (469.48) | 16,466.00 | 15,996.52 | 7,998.26 | 7,998.26 | 0 | 1 |
| 7719-100 | CITY OF CARMEL | 543,877.73 | 539,921.00 | 3,956.73 | 552,266.00 | 556,222.73 | 278,111.37 | 278,111.36 | 0 | 14 |
| 7720-100 | CITY OF CEDAR LAKE | 128,380.32 | 116,649.00 | 11,731.32 | 130,406.00 | 142,137.32 | 71,068.66 | 71,068.66 | 0 | 4 |
| 7721-100 | CITY OF CHARLESTON | 101,999.51 | 101,268.00 | 731.51 | 103,860.00 | 104,591.51 | 52,295.76 | 52,295.75 | 0 | 4 |
| 7722-100 | CITY OF CHESTERTON | 177,481.80 | 172,090.00 | 5,391.80 | 178,563.00 | 183,954.80 | 91,977.40 | 91,977.40 | 0 | 6 |
| 7723-100 | CITY OF CLARKSVILLE | 327,092.46 | 335,192.00 | $(8,099.54)$ | 341,546.00 | 333,446.46 | 166,723.23 | 166,723.23 | 1 | 11 |
| 7724-100 | CITY OF CLINTON | 53,688.60 | 54,259.00 | (570.40) | 54,242.00 | 53,671.60 | 26,835.80 | 26,835.80 | 0 | 4 |
| 7725-100 | CITY OF COLUMBIA CITY | 184,051.68 | 182,132.00 | 1,919.68 | 186,082.00 | 188,001.68 | 94,000.84 | 94,000.84 | 0 | 10 |
| 7726-100 | CITY OF COLUMBUS | 999,077.51 | 1,005,618.00 | $(6,540.49)$ | 968,465.00 | 961,924.51 | 480,962.26 | 480,962.25 | 0 | 35 |
| 7727-100 | CITY OF CONNERSVILLE | 528,816.08 | 532,389.00 | $(3,572.92)$ | 521,721.00 | 518,148.08 | 259,074.04 | 259,074.04 | 0 | 21 |
| 7728-100 | CITY OF COVINGTON | 103,051.92 | 104,093.00 | $(1,041.08)$ | 105,979.00 | 104,937.92 | 52,468.96 | 52,468.96 | 0 | 4 |
| 7729-100 | CITY OF CRAWFORDSVILLE | 515,115.06 | 481,116.00 | 33,999.06 | 441,060.00 | 475,059.06 | 237,529.53 | 237,529.53 | 0 | 17 |
| 7730-100 | CITY OF CROWN POINT | 493,948.56 | 498,057.00 | $(4,108.44)$ | 515,052.00 | 510,943.56 | 255,471.78 | 255,471.78 | 1 | 14 |
| 7731-100 | CITY OF DECATUR | 308,072.14 | 311,744.00 | $(3,671.86)$ | 295,325.00 | 291,653.14 | 145,826.57 | 145,826.57 | 0 | 15 |
| 7732-100 | CITY OF DELPHI | 13,367.94 | 13,088.00 | 279.94 | 13,421.00 | 13,700.94 | 6,850.47 | 6,850.47 | 0 | 1 |
| 7733-100 | CITY OF DUNKIRK | 22,497.72 | 22,974.00 | (476.28) | 23,055.00 | 22,578.72 | 11,289.36 | 11,289.36 | 0 | 1 |
| 7734-100 | CITY OF DYER | 195,756.96 | 197,631.00 | $(1,874.04)$ | 197,569.00 | 195,694.96 | 97,847.48 | 97,847.48 | 0 | 6 |
| 7735-100 | CITY OF EAST CHICAGO | 3,363,760.27 | 3,344,189.00 | 19,571.27 | 3,185,574.00 | 3,205,145.27 | 1,602,572.64 | 1,602,572.63 | 0 | 118 |
| 7736-100 | CITY OF LAKE STATION (E. GARY) | 342,976.00 | 345,546.00 | $(2,570.00)$ | 345,547.00 | 342,977.00 | 171,488.50 | 171,488.50 | 0 | 13 |
| 7737-100 | CITY OF ELKHART | 2,046,424.67 | 2,101,299.00 | $(54,874.33)$ | 2,016,172.00 | 1,961,297.67 | 980,648.84 | 980,648.83 | 0 | 73 |
| 7738-100 | CITY OF ELWOOD | 308,803.18 | 305,022.00 | 3,781.18 | 295,891.00 | 299,672.18 | 149,836.09 | 149,836.09 | 0 | 14 |
| 7739-100 | CITY OF EVANSVILLE | 6,428,216.92 | 6,464,897.00 | $(36,680.08)$ | 6,335,858.00 | 6,299,177.92 | 3,149,588.96 | 3,149,588.96 | 1 | 202 |
| 7740-100 | CITY OF FORT WAYNE | 7,620,257.47 | 7,698,242.00 | $(77,984.53)$ | 7,728,852.00 | 7,650,867.47 | 3,825,433.74 | 3,825,433.73 | 4 | 281 |
| 7741-100 | CITY OF FRANKFORT | 449,776.34 | 450,231.00 | (454.66) | 448,410.00 | 447,955.34 | 223,977.67 | 223,977.67 | 0 | 23 |
| 7742-100 | CITY OF FRANKLIN | 221,900.70 | 219,729.00 | 2,171.70 | 223,192.00 | 225,363.70 | 112,681.85 | 112,681.85 | 0 | 8 |
| 7743-100 | CITY OF GARRETT | 75,200.96 | 75,286.00 | (85.04) | 77,712.00 | 77,626.96 | 38,813.48 | 38,813.48 | 0 | 3 |
| 7744-100 | CITY OF GARY | 5,201,766.06 | 4,706,701.00 | 495,065.06 | 5,022,206.00 | 5,517,271.06 | 2,758,635.53 | 2,758,635.53 | 0 | 205 |
| 7745-100 | CITY OF GAS CITY | 110,038.68 | 108,885.00 | 1,153.68 | 112,093.00 | 113,246.68 | 56,623.34 | 56,623.34 | 0 | 6 |
| 7746-100 | CITY OF GOSHEN | 443,802.48 | 440,764.00 | 3,038.48 | 446,643.00 | 449,681.48 | 224,840.74 | 224,840.74 | 0 | 18 |
| 7747-100 | CITY OF GREENCASTLE | 119,181.18 | 110,297.00 | 8,884.18 | 101,342.00 | 110,226.18 | 55,113.09 | 55,113.09 | 0 | 5 |
| 7749-100 | CITY OF GREENFIELD | 277,522.91 | 274,716.00 | 2,806.91 | 252,540.00 | 255,346.91 | 127,673.46 | 127,673.45 | 0 | 11 |
| 7750-100 | CITY OF GREENSBURG | 150,956.64 | 140,100.00 | 10,856.64 | 152,361.00 | 163,217.64 | 81,608.82 | 81,608.82 | 0 | 7 |
| 7751-100 | CITY OF GREENWOOD | 361,655.79 | 375,180.00 | (13,524.21) | 379,767.00 | 366,242.79 | 183,121.40 | 183,121.39 | 0 | 12 |
| 7752-100 | CITY OF GRIFFITH | 588,339.18 | 601,587.00 | $(13,247.82)$ | 594,581.00 | 581,333.18 | 290,666.59 | 290,666.59 | 0 | 17 |
| 7753-100 | CITY OF HAMMOND | 4,444,925.71 | 4,785,433.00 | $(340,507.29)$ | 4,699,496.00 | 4,358,988.71 | 2,179,494.36 | 2,179,494.35 | 0 | 153 |
| 7754-100 | CITY OF HARTFORD CITY | 62,987.20 | 63,830.00 | (842.80) | 63,823.00 | 62,980.20 | 31,490.10 | 31,490.10 | 0 | 4 |
| 7755-100 | CITY OF HIGHLAND | 777,099.44 | 738,134.00 | 38,965.44 | 764,615.00 | 803,580.44 | 401,790.22 | 401,790.22 | 0 | 21 |
| 7756-100 | CITY OF HOBART | 594,834.78 | 588,949.00 | 5,885.78 | 570,192.00 | 576,077.78 | 288,038.89 | 288,038.89 | 0 | 19 |
| 7757-100 | CITY OF HUNTINGBURG | 60,626.34 | 60,468.00 | 158.34 | 61,470.00 | 61,628.34 | 30,814.17 | 30,814.17 | 0 | 3 |
| 7758-100 | CITY OF HUNTINGTON | 754,709.68 | 764,063.00 | $(9,353.32)$ | 752,381.00 | 743,027.68 | 371,513.84 | 371,513.84 | 0 | 29 |
| 7759-100 | CITY OF INDIANAPOLIS | 28,559,628.66 | 28,979,564.00 | $(419,935.34)$ | 28,723,030.00 | 28,303,094.66 | 14,151,547.33 | 14,151,547.33 | 16 | 791 |
| 7761-100 | CITY OFJ ASPER | 178,928.88 | 179,260.00 | (331.12) | 166,525.00 | 166,193.88 | 83,096.94 | 83,096.94 | 0 | 6 |
| 7762-100 | CITY OFJ EFFERSONVILLE | 834,416.42 | 838,394.00 | $(3,977.58)$ | 773,433.00 | 769,455.42 | 384,727.71 | 384,727.71 | 0 | 26 |
| 7763-100 | CITY OF KENDALLVILLE | 123,154.01 | 118,593.00 | 4,561.01 | 123,483.00 | 128,044.01 | 64,022.01 | 64,022.00 | 0 | 6 |
|  |  |  |  |  |  |  |  |  |  |  |

B. Old Police Pension Funds

c. Old Firefighters' Pension Funds

| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Actual |  | True-Up |  | Net Pension | Net Pension | Net Pension | 1/1/2017 Ce | nsus Counts |
|  |  | Benefits | Projected | for 2016 | Projected | Relief Distrib | Relief Distrib | Relief Distrib | Actives \& | Retirees/ |
| Employer | Employer | Paid | Benefits | Paid in 2017 | Benefits | During 2017 | in June 2017 | in October 2017 | Terminated | Beneficiaries/ |
| Code | Name | During 2016 | During 2016 | (c) - (d) | During 2017 | (e) + (f) | $50 \%$ of (g) | (g) - (h) | Vesteds | Disableds |
| Distributions from Pension Relief Fund |  |  |  |  |  |  |  |  |  |  |
| 7700-200 | CITY OF ALEXANDRIA | 104,515.32 | 116,100.00 | $(11,584.68)$ | 113,909.00 | 102,324.32 | 51,162.16 | 51,162.16 | 0 | 6 |
| 7701-200 | CITY OF ANDERSON | 2,957,110.09 | 2,969,775.00 | (12,664.91) | 2,936,021.00 | 2,923,356.09 | 1,461,678.05 | 1,461,678.04 | 0 | 111 |
| 7707-200 | CITY OF BEDFORD | 583,689.24 | 564,891.00 | 18,798.24 | 588,616.00 | 607,414.24 | 303,707.12 | 303,707.12 | 0 | 23 |
| 7708-200 | CITY OF BEECH GROVE | 321,664.50 | 315,890.00 | 5,774.50 | 303,475.00 | 309,249.50 | 154,624.75 | 154,624.75 | 0 | 10 |
| 7711-200 | CITY OF BLOOMINGTON | 1,869,849.51 | 1,858,548.00 | 11,301.51 | 1,804,732.00 | 1,816,033.51 | 908,016.76 | 908,016.75 | 0 | 67 |
| 7713-200 | CITY OF BOONVILLE | 146,263.92 | 134,795.00 | 11,468.92 | 123,948.00 | 135,416.92 | 67,708.46 | 67,708.46 | 0 | 6 |
| 7714-200 | CITY OF BRAZIL | 206,788.39 | 202,703.00 | 4,085.39 | 209,389.00 | 213,474.39 | 106,737.20 | 106,737.19 | 0 | 9 |
| 7719-200 | CITY OF CARMEL | 562,643.00 | 556,359.00 | 6,284.00 | 570,038.00 | 576,322.00 | 288,161.00 | 288,161.00 | 0 | 15 |
| 7722-200 | CITY OF CHESTERTON | 62,552.04 | 58,511.00 | 4,041.04 | 63,201.00 | 67,242.04 | 33,621.02 | 33,621.02 | 0 | 3 |
| 7723-200 | CITY OF CLARKSVILLE | 532,618.68 | 531,309.00 | 1,309.68 | 541,741.00 | 543,050.68 | 271,525.34 | 271,525.34 | 0 | 18 |
| 7724-200 | CITY OF CLINTON | 65,232.84 | 40,206.00 | 25,026.84 | 31,891.00 | 56,917.84 | 28,458.92 | 28,458.92 | 0 |  |
| 7726-200 | CITY OF COLUMBUS | 1,838,967.10 | 1,727,748.00 | 111,219.10 | 1,743,005.00 | 1,854,224.10 | 927,112.05 | 927,112.05 | 0 | 59 |
| 7727-200 | CITY OF CONNERSVILLE | 929,342.31 | 924,843.00 | 4,499.31 | 908,501.00 | 913,000.31 | 456,500.16 | 456,500.15 | 0 | 38 |
| 7729-200 | CITY OF CRAWFORDSVILLE | 424,461.00 | 425,167.00 | (706.00) | 432,362.00 | 431,656.00 | 215,828.00 | 215,828.00 | 0 | 17 |
| 7730-200 | CITY OF CROWN POINT | 62,308.38 | 64,916.00 | $(2,607.62)$ | 45,180.00 | 42,572.38 | 21,286.19 | 21,286.19 | 0 | 2 |
| 7731-200 | CITY OF DECATUR | 130,517.20 | 134,072.00 | $(3,554.80)$ | 131,589.00 | 128,034.20 | 64,017.10 | 64,017.10 | 0 | 6 |
| 7735-200 | CITY OF EAST CHICAGO | 2,542,915.86 | 2,621,127.00 | $(78,211.14)$ | 2,442,934.00 | 2,364,722.86 | 1,182,361.43 | 1,182,361.43 | 0 | 86 |
| 7737-200 | CITY OF ELKHART | 2,767,749.72 | 2,766,311.00 | 1,438.72 | 2,748,752.00 | 2,750,190.72 | 1,375,095.36 | 1,375,095.36 | 0 | 94 |
| 7738-200 | CITY OF ELWOOD | 214,627.51 | 215,110.00 | (482.49) | 214,255.00 | 213,772.51 | 106,886.26 | 106,886.25 | 0 | 13 |
| 7739-200 | CITY OF EVANSVILLE | 4,979,651.45 | 4,963,993.00 | 15,658.45 | 4,708,999.00 | 4,724,657.45 | 2,362,328.73 | 2,362,328.72 | 0 | 148 |
| 7740-200 | CITY OF FORT WAYNE | 6,553,429.06 | 6,519,573.00 | 33,856.06 | 6,375,604.00 | 6,409,460.06 | 3,204,730.03 | 3,204,730.03 | 0 | 235 |
| 7741-200 | CITY OF FRANKFORT | 738,945.35 | 732,848.00 | 6,097.35 | 772,926.00 | 779,023.35 | 389,511.68 | 389,511.67 | 1 | 31 |
| 7742-200 | CITY OF FRANKLIN | 468,555.91 | 467,951.00 | 604.91 | 475,006.00 | 475,610.91 | 237,805.46 | 237,805.45 | 0 | 14 |
| 7744-200 | CITY OF GARY | 4,877,212.31 | 4,292,050.00 | 585,162.31 | 4,769,721.00 | 5,354,883.31 | 2,677,441.66 | 2,677,441.65 | 0 | 191 |
| 7746-200 | CITY OF GOSHEN | 520,713.60 | 498,611.00 | 22,102.60 | 493,742.00 | 515,844.60 | 257,922.30 | 257,922.30 | 0 | 23 |
| 7747-200 | CITY OF GREENCASTLE | 99,157.28 | 108,870.00 | $(9,712.72)$ | 85,548.00 | 75,835.28 | 37,917.64 | 37,917.64 | 0 | 5 |
| 7749-200 | CITY OF GREENFIELD | 85,485.24 | 84,941.00 | 544.24 | 86,749.00 | 87,293.24 | 43,646.62 | 43,646.62 | 0 | 3 |
| 7750-200 | CITY OF GREENSBURG | 122,633.52 | 141,757.00 | $(19,123.48)$ | 125,432.00 | 106,308.52 | 53,154.26 | 53,154.26 | 0 | 7 |
| 7753-200 | CITY OF HAMMOND | 4,000,564.41 | 4,388,490.00 | $(387,925.59)$ | 4,196,905.00 | 3,808,979.41 | 1,904,489.71 | 1,904,489.70 | 0 | 127 |
| 7754-200 | CITY OF HARTFORD CITY | 38,186.10 | 38,708.00 | (521.90) | 38,711.00 | 38,189.10 | 19,094.55 | 19,094.55 | 0 | 2 |
| 7756-200 | CITY OF HOBART | 328,451.24 | 339,489.00 | $(11,037.76)$ | 327,748.00 | 316,710.24 | 158,355.12 | 158,355.12 | 0 | 11 |
| 7758-200 | CITY OF HUNTINGTON | 892,944.72 | 886,004.00 | 6,940.72 | 903,937.00 | 910,877.72 | 455,438.86 | 455,438.86 | 0 | 33 |
| 7759-200 | CITY OF INDIANAPOLIS | 27,876,155.77 | 28,045,042.00 | $(168,886.23)$ | 27,654,980.00 | 27,486,093.77 | 13,743,046.89 | 13,743,046.88 | 8 | 739 |
| 7762-200 | CITY OFJ EFFERSONVILLE | 1,322,672.33 | 1,211,775.00 | 110,897.33 | 1,205,177.00 | 1,316,074.33 | 658,037.17 | 658,037.16 | 0 | 36 |
| 7763-200 | CITY OF KENDALLVILLE | 30,254.60 | 29,454.00 | 800.60 | 30,702.00 | 31,502.60 | 15,751.30 | 15,751.30 | 0 | 1 |
| 7765-200 | CITY OF KOKOMO | 3,547,640.54 | 3,558,043.00 | $(10,402.46)$ | 3,503,834.00 | 3,493,431.54 | 1,746,715.77 | 1,746,715.77 | 0 | 123 |
| 7766-200 | CITY OF LAFAYETTE | 2,487,553.91 | 2,415,498.00 | 72,055.91 | 2,471,516.00 | 2,543,571.91 | 1,271,785.96 | 1,271,785.95 | 0 | 78 |
| 7767-200 | CITY OF LAPORTE | 966,417.72 | 947,953.00 | 18,464.72 | 978,881.00 | 997,345.72 | 498,672.86 | 498,672.86 | 0 | 40 |
| 7770-200 | CITY OF LEBANON | 334,115.42 | 320,290.00 | 13,825.42 | 312,694.00 | 326,519.42 | 163,259.71 | 163,259.71 | 0 | 12 |
| 7772-200 | CITY OF LINTON | 55,499.07 | 65,168.00 | $(9,668.93)$ | 51,572.00 | 41,903.07 | 20,951.54 | 20,951.53 | 0 | 4 |
| 7773-200 | CITY OF LOGANSPORT | 780,008.99 | 778,780.00 | 1,228.99 | 783,105.00 | 784,333.99 | 392,167.00 | 392,166.99 | 0 | 31 |
| 7777-200 | CITY OF MARION | 1,408,934.32 | 1,369,789.00 | 39,145.32 | 1,419,675.00 | 1,458,820.32 | 729,410.16 | 729,410.16 | 0 | 65 |
| 7781-200 | CITY OF MARTINSVILLE | 211,510.30 | 210,672.00 | 838.30 | 214,610.00 | 215,448.30 | 107,724.15 | 107,724.15 | 0 | 9 |
| 7783-200 | CITY OF MICHIGAN CITY | 1,335,343.39 | 1,345,854.00 | $(10,510.61)$ | 1,304,191.00 | 1,293,680.39 | 646,840.20 | 646,840.19 | 1 | 55 |
| 7784-200 | CITY OF MISHAWAKA | 2,188,594.15 | 2,156,237.00 | 32,357.15 | 2,024,305.00 | 2,056,662.15 | 1,028,331.08 | 1,028,331.07 | 0 | 71 |
| 7786-200 | CITY OF MONTICELLO | 156,530.32 | 159,674.00 | $(3,143.68)$ | 147,426.00 | 144,282.32 | 72,141.16 | 72,141.16 | 0 | 6 |
| 7788-200 | CITY OF MOUNT VERNON | 101,270.33 | 111,040.00 | $(9,769.67)$ | 100,875.00 | 91,105.33 | 45,552.67 | 45,552.66 | 0 | 5 |
| 7789-200 | CITY OF MUNCIE | 2,451,857.32 | 2,366,998.00 | 84,859.32 | 2,368,387.00 | 2,453,246.32 | 1,226,623.16 | 1,226,623.16 | 0 | 98 |
| 7792-200 | CITY OF NEW ALBANY | 2,059,289.60 | 2,084,546.00 | $(25,256.40)$ | 2,062,025.00 | 2,036,768.60 | 1,018,384.30 | 1,018,384.30 | 0 | 60 |
| 7793-200 | CITY OF NEW CASTLE | 432,900.90 | 434,781.00 | $(1,880.10)$ | 437,085.00 | 435,204.90 | 217,602.45 | 217,602.45 | 0 | 18 |
| 7795-200 | CITY OF NOBLESVILLE | 485,031.60 | 447,551.00 | 37,480.60 | 490,238.00 | 527,718.60 | 263,859.30 | 263,859.30 | 0 | 15 |
| 7798-200 | CITY OF PERU | 565,311.21 | 564,033.00 | 1,278.21 | 572,739.00 | 574,017.21 | 287,008.61 | 287,008.60 | 0 | 24 |
| 7800-200 | CITY OF PLAINFIELD | 111,433.77 | 120,061.00 | $(8,627.23)$ | 122,408.00 | 113,780.77 | 56,890.39 | 56,890.38 | 1 | 4 |
| 7801-200 | CITY OF PLYMOUTH | 55,946.28 | 55,554.00 | 392.28 | 56,538.00 | 56,930.28 | 28,465.14 | 28,465.14 | 0 | 2 |
| 7802-200 | CITY OF PORTAGE | 523,421.37 | 530,408.00 | $(6,986.63)$ | 530,604.00 | 523,617.37 | 261,808.69 | 261,808.68 | 0 | 21 |
| 7803-200 | CITY OF PORTLAND | 109,355.73 | 102,199.00 | 7,156.73 | 110,436.00 | 117,592.73 | 58,796.37 | 58,796.36 | 0 | 7 |
| 7804-200 | CITY OF PRINCETON | 185,337.78 | 182,034.00 | 3,303.78 | 188,859.00 | 192,162.78 | 96,081.39 | 96,081.39 | 0 | 7 |
| 7806-200 | CITY OF RICHMOND | 1,823,134.24 | 1,838,864.00 | $(15,729.76)$ | 1,792,792.00 | 1,777,062.24 | 888,531.12 | 888,531.12 | 0 | 66 |
| 7808-200 | CITY OF ROCHESTER | 51,650.58 | 49,121.00 | 2,529.58 | 51,291.00 | 53,820.58 | 26,910.29 | 26,910.29 | 0 | 3 |
| 7810-200 | CITY OF RUSHVILLE | 97,271.46 | 95,584.00 | 1,687.46 | 97,691.00 | 99,378.46 | 49,689.23 | 49,689.23 | 0 | 6 |
| 7811-200 | CITY OF SALEM | 102,696.16 | 100,928.00 | 1,768.16 | 103,496.00 | 105,264.16 | 52,632.08 | 52,632.08 | 0 | 5 |
| 7815-200 | CITY OF SEYMOUR | 499,489.84 | 495,079.00 | 4,410.84 | 475,674.00 | 480,084.84 | 240,042.42 | 240,042.42 | 0 | 19 |
| INPRS |  |  |  |  |  |  |  |  |  |  |



## D. Projected Aggregate Distributions

| Year | Projected Benefit | Year | Projected <br> Benefit |
| :---: | :---: | :---: | :---: |
| 2017 | 211,416,946 | 2057 | 4,030,432 |
| 2018 | 210,357,099 | 2058 | 3,175,143 |
| 2019 | 208,639,616 | 2059 | 2,498,307 |
| 2020 | 206,471,662 | 2060 | 1,966,188 |
| 2021 | 203,813,598 | 2061 | 1,549,816 |
| 2022 | 200,697,886 | 2062 | 1,224,942 |
| 2023 | 197,164,768 | 2063 | 971,685 |
| 2024 | 193,241,429 | 2064 | 774,051 |
| 2025 | 188,864,797 | 2065 | 619,421 |
| 2026 | 184,128,822 | 2066 | 497,931 |
| 2027 | 178,983,227 | 2067 | 401,994 |
| 2028 | 173,425,733 | 2068 | 325,922 |
| 2029 | 167,455,865 | 2069 | 265,396 |
| 2030 | 161,076,996 | 2070 | 217,077 |
| 2031 | 154,298,223 | 2071 | 178,436 |
| 2032 | 147,136,003 | 2072 | 147,531 |
| 2033 | 139,616,047 | 2073 | 122,815 |
| 2034 | 131,773,867 | 2074 | 103,001 |
| 2035 | 123,656,148 | 2075 | 87,089 |
| 2036 | 115,320,497 | 2076 | 74,274 |
| 2037 | 106,834,839 | 2077 | 63,898 |
| 2038 | 98,276,759 | 2078 | 55,422 |
| 2039 | 89,731,780 | 2079 | 48,415 |
| 2040 | 81,290,327 | 2080 | 42,527 |
| 2041 | 73,043,173 | 2081 | 37,483 |
| 2042 | 65,078,132 | 2082 | 33,092 |
| 2043 | 57,476,158 | 2083 | 29,216 |
| 2044 | 50,308,009 | 2084 | 25,733 |
| 2045 | 43,632,125 | 2085 | 22,572 |
| 2046 | 37,492,809 | 2086 | 19,692 |
| 2047 | 31,918,401 | 2087 | 17,054 |
| 2048 | 26,920,750 | 2088 | 14,641 |
| 2049 | 22,496,914 | 2089 | 12,453 |
| 2050 | 18,630,798 | 2090 | 10,478 |
| 2051 | 15,295,025 | 2091 | 8,709 |
| 2052 | 12,452,720 | 2092 | 7,147 |
| 2053 | 10,060,335 | 2093 | 5,783 |
| 2054 | 8,070,362 | 2094 | 4,617 |
| 2055 | 6,433,829 | 2095 | 3,633 |
| 2056 | 5,102,493 | 2096 | 2,816 |

## SUPPLEMENTAL INFORMATION

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## A. Summary of Unfunded Actuarial Accrued Liabilities and Normal Costs

| Unfunded Actuarial Accrued Liability (UAAL) and Normal Cost | January 1, 2016 |  | , |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Total |  |  |  |  |
| a. Actuarial Accrued Liability | \$ | 3,393,594,405 | \$ | 3,057,490,580 |
| b. Valuation Assets |  | - |  | - - |
| c. Unfunded Actuarial Accrued Liability [(a) - (b)] |  | 3,393,594,405 |  | 3,057,490,580 |
| d. Normal Cost |  | 1,728,956 |  | 989,357 |
| Old Police Pension Funds |  |  |  |  |
| a. Actuarial Accrued Liability | \$ | 1,783,142,639 | \$ | 1,611,716,816 |
| b. Valuation Assets |  | - |  | - |
| c. Unfunded Actuarial Accrued Liability [(a) - (b)] |  | 1,783,142,639 |  | 1,611,716,816 |
| d. Normal Cost |  | 1,060,596 |  | 673,734 |
| Old Firefighters' Pension Funds |  |  |  |  |
| a. Actuarial Accrued Liability | \$ | 1,610,451,766 | \$ | 1,445,773,764 |
| b. Valuation Assets |  | - |  | - |
| c. Unfunded Actuarial Accrued Liability [(a) - (b)] |  | 1,610,451,766 |  | 1,445,773,764 |
| d. Normal Cost |  | 668,360 |  | 315,623 |

B. Unfunded Actuarial Accrued Liabilities and Normal Costs - Old Police Pension Funds

| Acct <br> \# | Employer Name | Normal Cost | Accrued <br> Liability | Valuation Assets | Unfunded Accrued Liability | Funded Ratio | Anticipated Payroll | Unfunded Liab. as \% of Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7700-100 | CITY OF ALEXANDRIA | - | 2,196,274 | - | 2,196,274 | 0.0\% | - | - |
| 7701-100 | CITY OF ANDERSON | - | 40,822,763 | - | 40,822,763 | 0.0\% | - | - |
| 7702-100 | CITY OF ANGOLA | - | 2,551,670 | - | 2,551,670 | 0.0\% | - | - |
| 7703-100 | CITY OF ATTICA | - | 634,655 | - | 634,655 | 0.0\% | - | - |
| 7704-100 | CITY OF AUBURN | - | 1,043,642 | - | 1,043,642 | 0.0\% | - | - |
| 7705-100 | CITY OF AURORA | - | 982,593 | - | 982,593 | 0.0\% | - | - |
| 7706-100 | CITY OF BATESVILLE | - | 853,529 | - | 853,529 | 0.0\% | - | - |
| 7707-100 | CITY OF BEDFORD | - | 7,257,551 | - | 7,257,551 | 0.0\% | - | - |
| 7708-100 | CITY OF BEECH GROVE | - | 8,621,792 | - | 8,621,792 | 0.0\% | - | - |
| 7709-100 | CITY OF BERNE | - | 200,698 | - | 200,698 | 0.0\% | - | - |
| 7711-100 | CITY OF BLOOMINGTON | - | 18,595,625 | - | 18,595,625 | 0.0\% | - | - |
| 7712-100 | CITY OF BLUFFTON | - | 4,013,590 | - | 4,013,590 | 0.0\% | - | - |
| 7713-100 | CITY OF BOONVILLE | - | 1,536,059 | - | 1,536,059 | 0.0\% | - | - |
| 7714-100 | CITY OF BRAZIL | - | 1,042,937 | - | 1,042,937 | 0.0\% | - | - |
| 7715-100 | CITY OF BREMEN | - | 71,061 | - | 71,061 | 0.0\% | - | - |
| 7716-100 | CITY OF BROWNSBURG | - | 4,627,441 | - | 4,627,441 | 0.0\% | - | - |
| 7717-100 | CITY OF BUTLER | - | 318,754 | - | 318,754 | 0.0\% | - | - |
| 7718-100 | CITY OF CANNELTON | - | 214,528 | - | 214,528 | 0.0\% | - | - |
| 7719-100 | CITY OF CARMEL | - | 10,043,655 | - | 10,043,655 | 0.0\% | - | - |
| 7720-100 | CITY OF CEDAR LAKE | - | 2,296,590 | - | 2,296,590 | 0.0\% | - | - |
| 7721-100 | CITY OF CHARLESTON | - | 1,787,017 | - | 1,787,017 | 0.0\% | - | - |
| 7722-100 | CITY OF CHESTERTON | - | 3,201,495 | - | 3,201,495 | 0.0\% | - | - |
| 7723-100 | CITY OF CLARKSVILLE | 25,802 | 6,689,579 | - | 6,689,579 | 0.0\% | 56,787 | 11780.12\% |
| 7724-100 | CITY OF CLINTON | - | 810,832 | - | 810,832 | 0.0\% | - | - |
| 7725-100 | CITY OF COLUMBIA CITY | - | 2,465,157 | - | 2,465,157 | 0.0\% | - | - |
| 7726-100 | CITY OF COLUMBUS | - | 13,613,340 | - | 13,613,340 | 0.0\% | - | - |
| 7727-100 | CITY OF CONNERSVILLE | - | 7,612,150 | - | 7,612,150 | 0.0\% | - | - |
| 7728-100 | CITY OF COVINGTON | - | 1,836,109 | - | 1,836,109 | 0.0\% | - | - |
| 7729-100 | CITY OF CRAWFORDSVILLE | - | 6,460,303 | - | 6,460,303 | 0.0\% | - | - |
| 7730-100 | CITY OF CROWN POINT | 31,459 | 9,438,855 | - | 9,438,855 | 0.0\% | 64,247 | 14691.51\% |
| 7731-100 | CITY OF DECATUR | - | 4,763,634 | - | 4,763,634 | 0.0\% | - | - |
| 7732-100 | CITY OF DELPHI | - | 131,257 | - | 131,257 | 0.0\% | - | - |
| 7733-100 | CITY OF DUNKIRK | - | 351,753 | - | 351,753 | 0.0\% | - | - |
| 7734-100 | CITY OF DYER | - | 3,123,605 | - | 3,123,605 | 0.0\% | - | - |
| 7735-100 | CITY OF EAST CHICAGO | - | 43,126,074 | - | 43,126,074 | 0.0\% | - | - |
| 7736-100 | CITY OF LAKE STATION (E. GARY) | - | 6,075,904 | - | 6,075,904 | 0.0\% | - | - |
| 7737-100 | CITY OF ELKHART | - | 30,002,720 | - | 30,002,720 | 0.0\% | - | - |
| 7738-100 | CITY OF ELWOOD | - | 4,822,042 | - | 4,822,042 | 0.0\% | - | - |
| 7739-100 | CITY OF EVANSVILLE | 31,810 | 94,628,798 | - | 94,628,798 | 0.0\% | 60,946 | 155266.63\% |
| 7740-100 | CITY OF FORT WAYNE | 79,928 | 114,629,325 | - | 114,629,325 | 0.0\% | 168,278 | 68119.02\% |
| 7741-100 | CITY OF FRANKFORT | - | 6,066,206 | - | 6,066,206 | 0.0\% | - | - |
| 7742-100 | CITY OF FRANKLIN | - | 3,263,815 | - | 3,263,815 | 0.0\% | - | - |
| 7743-100 | CITY OF GARRETT | - | 1,234,860 | - | 1,234,860 | 0.0\% | - | - |
| 7744-100 | CITY OF GARY | - | 64,302,126 | - | 64,302,126 | 0.0\% | - | - |
| 7745-100 | CITY OF GAS CITY | - | 1,615,463 | - | 1,615,463 | 0.0\% | - | - |
| 7746-100 | CITY OF GOSHEN | - | 6,318,209 | - | 6,318,209 | 0.0\% | - | - |
| 7747-100 | CITY OF GREENCASTLE | - | 1,365,095 | - | 1,365,095 | 0.0\% | - | - |
| 7749-100 | CITY OF GREENFIELD | - | 3,931,588 | - | 3,931,588 | 0.0\% | - | - |

B. Unfunded Actuarial Accrued Liabilities and Normal Costs - Old Police Pension Funds

| Acct <br> \# | Employer Name | Normal Cost | Accrued <br> Liability | Valuation Assets | Unfunded Accrued Liability | Funded Ratio | Anticipated Payroll | Unfunded Liab. as \% of Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7750-100 | CITY OF GREENSBURG | - | 2,109,750 | - | 2,109,750 | 0.0\% | - | - |
| 7751-100 | CITY OF GREENWOOD | - | 6,285,408 | - | 6,285,408 | 0.0\% | - | - |
| 7752-100 | CITY OF GRIFFITH | - | 9,788,994 | - | 9,788,994 | 0.0\% | - | - |
| 7753-100 | CITY OF HAMMOND | - | 66,814,699 | - | 66,814,699 | 0.0\% | - | - |
| 7754-100 | CITY OF HARTFORD CITY | - | 721,499 | - | 721,499 | 0.0\% | - | - |
| 7755-100 | CITY OF HIGHLAND | - | 12,075,774 | - | 12,075,774 | 0.0\% | - | - |
| 7756-100 | CITY OF HOBART | - | 8,696,177 | - | 8,696,177 | 0.0\% | - | - |
| 7757-100 | CITY OF HUNTINGBURG | - | 1,083,494 | - | 1,083,494 | 0.0\% | - | - |
| 7758-100 | CITY OF HUNTINGTON | - | 11,300,777 | - | 11,300,777 | 0.0\% | - | - |
| 7759-100 | CITY OF INDIANAPOLIS | 267,856 | 433,230,172 | - | 433,230,172 | 0.0\% | 582,322 | 74397.01\% |
| 7761-100 | CITY OFJ ASPER | - | 2,486,273 | - | 2,486,273 | 0.0\% | - | - |
| 7762-100 | CITY OFJ EFFERSONVILLE | - | 12,985,828 | - | 12,985,828 | 0.0\% | - | - |
| 7763-100 | CITY OF KENDALLVILLE | - | 2,087,524 | - | 2,087,524 | 0.0\% | - | - |
| 7764-100 | CITY OF KNOX | - | 901,834 | - | 901,834 | 0.0\% | - | - |
| 7765-100 | CITY OF KOKOMO | - | 33,809,127 | - | 33,809,127 | 0.0\% | - | - |
| 7766-100 | CITY OF LAFAYETTE | - | 20,006,642 | - | 20,006,642 | 0.0\% | - | - |
| 7767-100 | CITY OF LAPORTE | - | 7,162,202 | - | 7,162,202 | 0.0\% | - | - |
| 7768-100 | CITY OF LAWRENCE | - | 6,258,744 | - | 6,258,744 | 0.0\% | - | - |
| 7769-100 | CITY OF LAWRENCEBURG | - | 4,474,403 | - | 4,474,403 | 0.0\% | - | - |
| 7770-100 | CITY OF LEBANON | - | 3,496,249 | - | 3,496,249 | 0.0\% | - | - |
| 7772-100 | CITY OF LINTON | - | 1,446,644 | - | 1,446,644 | 0.0\% | - | - |
| 7773-100 | CITY OF LOGANSPORT | - | 5,715,877 | - | 5,715,877 | 0.0\% | - | - |
| 7774-100 | CITY OF LOOGOOTEE | - | 267,305 | - | 267,305 | 0.0\% | - | - |
| 7775-100 | CITY OF LOWELL | - | 1,974,157 | - | 1,974,157 | 0.0\% | - | - |
| 7776-100 | CITY OF MADISON | 23,616 | 6,144,121 | - | 6,144,121 | 0.0\% | 50,693 | 12120.26\% |
| 7777-100 | CITY OF MARION | - | 14,653,503 | - | 14,653,503 | 0.0\% | - | - |
| 7781-100 | CITY OF MARTINSVILLE | - | 2,964,482 | - | 2,964,482 | 0.0\% | - | - |
| 7782-100 | CITY OF MERRILLVILLE | - | 9,923,386 | - | 9,923,386 | 0.0\% | - | - |
| 7783-100 | CITY OF MICHIGAN CITY | - | 22,245,134 | - | 22,245,134 | 0.0\% | - | - |
| 7784-100 | CITY OF MISHAWAKA | 25,219 | 18,071,583 | - | 18,071,583 | 0.0\% | 56,498 | 31986.23\% |
| 7785-100 | CITY OF MITCHELL | - | 693,887 | - | 693,887 | 0.0\% | - | - |
| 7786-100 | CITY OF MONTICELLO | - | 1,727,380 | - | 1,727,380 | 0.0\% | - | - |
| 7787-100 | CITY OF MONTPELIER | - | 41,023 | - | 41,023 | 0.0\% | - | - |
| 7788-100 | CITY OF MOUNT VERNON | - | 1,151,905 | - | 1,151,905 | 0.0\% | - | - |
| 7789-100 | CITY OF MUNCIE | - | 29,143,095 | - | 29,143,095 | 0.0\% | - | - |
| 7790-100 | CITY OF MUNSTER | - | 10,325,630 | - | 10,325,630 | 0.0\% | - | - |
| 7791-100 | CITY OF NAPPANEE | - | 935,657 | - | 935,657 | 0.0\% | - | - |
| 7792-100 | CITY OF NEW ALBANY | - | 29,310,184 | - | 29,310,184 | 0.0\% | - | - |
| 7793-100 | CITY OF NEW CASTLE | - | 8,887,933 | - | 8,887,933 | 0.0\% | - | - |
| 7794-100 | CITY OF NEW HAVEN | - | 1,881,311 | - | 1,881,311 | 0.0\% | - | - |
| 7795-100 | CITY OF NOBLESVILLE | - | 3,483,183 | - | 3,483,183 | 0.0\% | - | - |
| 7796-100 | CITY OF NORTH VERNON | - | 1,367,005 | - | 1,367,005 | 0.0\% | - | - |
| 7798-100 | CITY OF PERU | - | 5,734,345 | - | 5,734,345 | 0.0\% | - | - |
| 7800-100 | CITY OF PLAINFIELD | - | 3,800,745 | - | 3,800,745 | 0.0\% | - | - |
| 7801-100 | CITY OF PLYMOUTH | - | 3,307,437 | - | 3,307,437 | 0.0\% | - | - |
| 7802-100 | CITY OF PORTAGE | - | 7,550,169 | - | 7,550,169 | 0.0\% | - | - |
| 7803-100 | CITY OF PORTLAND | - | 605,625 | - | 605,625 | 0.0\% | - | - |
| 7804-100 | CITY OF PRINCETON | - | 3,543,135 | - | 3,543,135 | 0.0\% | - | - |

B. Unfunded Actuarial Accrued Liabilities and Normal Costs - Old Police Pension Funds

| Acct \# | Employer <br> Name | Normal Cost | Accrued <br> Liability | Valuation Assets | Unfunded Accrued Liability | Funded Ratio | Anticipated Payroll | Unfunded Liab. as \% of Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7806-100 | CITY OF RICHMOND | 25,436 | 18,801,339 | - | 18,801,339 | 0.0\% | 49,271 | 38159.04\% |
| 7808-100 | CITY OF ROCHESTER | - | 1,666,096 | - | 1,666,096 | 0.0\% | - | - |
| 7810-100 | CITY OF RUSHVILLE | - | 2,351,857 | - | 2,351,857 | 0.0\% | - | - |
| 7811-100 | CITY OF SALEM | - | 948,480 | - | 948,480 | 0.0\% | - | - |
| 7812-100 | CITY OF SCHERERVILLE | - | 2,700,434 | - | 2,700,434 | 0.0\% | - | - |
| 7813-100 | CITY OF SCOTTSBURG | - | 2,440,532 | - | 2,440,532 | 0.0\% | - | - |
| 7814-100 | CITY OF SELLERSBURG | - | 1,171,333 | - | 1,171,333 | 0.0\% | - | - |
| 7815-100 | CITY OF SEYMOUR | - | 7,562,044 | - | 7,562,044 | 0.0\% | - | - |
| 7816-100 | CITY OF SHELBYVILLE | 28,946 | 8,389,039 | - | 8,389,039 | 0.0\% | 58,586 | 14319.19\% |
| 7817-100 | CITY OF SOUTH BEND | 78,812 | 85,105,689 | - | 85,105,689 | 0.0\% | 176,121 | 48322.28\% |
| 7819-100 | CITY OF SPEEDWAY | - | 5,289,900 | - | 5,289,900 | 0.0\% | - | - |
| 7820-100 | CITY OF SULLIVAN | - | 1,343,478 | - | 1,343,478 | 0.0\% | - | - |
| 7821-100 | CITY OF TELL CITY | - | 1,784,265 | - | 1,784,265 | 0.0\% | - | - |
| 7822-100 | CITY OF TERRE HAUTE | 28,387 | 33,259,815 | - | 33,259,815 | 0.0\% | 56,349 | 59024.68\% |
| 7823-100 | CITY OF TIPTON | - | 1,168,317 | - | 1,168,317 | 0.0\% | - | - |
| 7824-100 | CITY OF UNION CITY | - | 267,487 | - | 267,487 | 0.0\% | - | - |
| 7825-100 | CITY OF VALPARAISO | - | 7,359,141 | - | 7,359,141 | 0.0\% | - | - |
| 7826-100 | CITY OF VINCENNES | - | 4,144,460 | - | 4,144,460 | 0.0\% | - | - |
| 7827-100 | CITY OF WABASH | 26,463 | 7,019,045 | - | 7,019,045 | 0.0\% | 53,708 | 13068.90\% |
| 7828-100 | CITY OF WARSAW | - | 4,310,398 | - | 4,310,398 | 0.0\% | - | - |
| 7829-100 | CITY OF WASHINGTON | - | 1,698,936 | - | 1,698,936 | 0.0\% | - | - |
| 7830-100 | CITY OF WEST LAFAYETTE | - | 9,728,715 | - | 9,728,715 | 0.0\% | - | - |
| 7831-100 | CITY OF WHITING | - | 5,671,989 | - | 5,671,989 | 0.0\% | - | - |
| 7834-100 | CITY OF ST. J OHN | - | 3,269,898 | - | 3,269,898 | 0.0\% | - | - |
| Total |  | 673,734 | 11,716,816 | - | 1,611,716,816 | 0.0\% | 1,433,806 | 2408.29\% |

C. Unfunded Actuarial Accrued Liabilities and Normal Costs - Old Firefighters' Pension Funds

| Acct \# | Employer Name | Normal Cost | Accrued <br> Liability | Valuation Assets | Unfunded Accrued Liability | Funded <br> Ratio | Anticipated Payroll | Unfunded Liab. as \% of Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7700-200 | CITY OF ALEXANDRIA | - | 1,557,546 | - | 1,557,546 | 0.0\% | - | - |
| 7701-200 | CITY OF ANDERSON | - | 43,539,471 | - | 43,539,471 | 0.0\% | - | - |
| 7707-200 | CITY OF BEDFORD | - | 7,958,101 | - | 7,958,101 | 0.0\% | - | - |
| 7708-200 | CITY OF BEECH GROVE | - | 5,389,128 | - | 5,389,128 | 0.0\% | - | - |
| 7711-200 | CITY OF BLOOMINGTON | - | 25,272,654 | - | 25,272,654 | 0.0\% | - | - |
| 7713-200 | CITY OF BOONVILLE | - | 1,892,541 | - | 1,892,541 | 0.0\% | - | - |
| 7714-200 | CITY OF BRAZIL | - | 3,368,847 | - | 3,368,847 | 0.0\% | - | - |
| 7719-200 | CITY OF CARMEL | - | 10,861,825 | - | 10,861,825 | 0.0\% | - | - |
| 7722-200 | CITY OF CHESTERTON | - | 1,313,293 | - | 1,313,293 | 0.0\% | - | - |
| 7723-200 | CITY OF CLARKSVILLE | - | 8,914,581 | - | 8,914,581 | 0.0\% | - | - |
| 7724-200 | CITY OF CLINTON | - | 338,868 | - | 338,868 | 0.0\% | - | - |
| 7726-200 | CITY OF COLUMBUS | - | 26,773,975 | - | 26,773,975 | 0.0\% | - | - |
| 7727-200 | CITY OF CONNERSVILLE | - | 13,653,556 | - | 13,653,556 | 0.0\% | - | - |
| 7729-200 | CITY OF CRAWFORDSVILLE | - | 5,972,729 | - | 5,972,729 | 0.0\% | - | - |
| 7730-200 | CITY OF CROWN POINT | - | 642,103 | - | 642,103 | 0.0\% | - | - |
| 7731-200 | CITY OF DECATUR | - | 1,757,528 | - | 1,757,528 | 0.0\% | - | - |
| 7735-200 | CITY OF EAST CHICAGO | - | 25,949,122 | - | 25,949,122 | 0.0\% | - | - |
| 7737-200 | CITY OF ELKHART | - | 38,255,207 | - | 38,255,207 | 0.0\% | - | - |
| 7738-200 | CITY OF ELWOOD | - | 2,313,926 | - | 2,313,926 | 0.0\% | - | - |
| 7739-200 | CITY OF EVANSVILLE | - | 69,617,678 | - | 69,617,678 | 0.0\% | - | - |
| 7740-200 | CITY OF FORT WAYNE | - | 85,812,216 | - | 85,812,216 | 0.0\% | - | - |
| 7741-200 | CITY OF FRANKFORT | - | 12,394,133 | - | 12,394,133 | 0.0\% | - | - |
| 7742-200 | CITY OF FRANKLIN | - | 8,005,650 | - | 8,005,650 | 0.0\% | - | - |
| 7744-200 | CITY OF GARY | - | 61,561,218 | - | 61,561,218 | 0.0\% | - | - |
| 7746-200 | CITY OF GOSHEN | - | 7,113,357 | - | 7,113,357 | 0.0\% | - | - |
| 7747-200 | CITY OF GREENCASTLE | - | 1,539,594 | - | 1,539,594 | 0.0\% | - | - |
| 7749-200 | CITY OF GREENFIELD | - | 1,656,254 | - | 1,656,254 | 0.0\% | - | - |
| 7750-200 | CITY OF GREENSBURG | - | 1,368,351 | - | 1,368,351 | 0.0\% | - | - |
| 7753-200 | CITY OF HAMMOND | - | 54,174,187 | - | 54,174,187 | 0.0\% | - | - |
| 7754-200 | CITY OF HARTFORD CITY | - | 495,878 | - | 495,878 | 0.0\% | - | - |
| 7756-200 | CITY OF HOBART | - | 4,848,859 | - | 4,848,859 | 0.0\% | - | - |
| 7758-200 | CITY OF HUNTINGTON | - | 11,811,156 | - | 11,811,156 | 0.0\% | - | - |
| 7759-200 | CITY OF INDIANAPOLIS | 167,235 | 396,213,061 | - | 396,213,061 | 0.0\% | 363,952 | 108864.10\% |
| 7762-200 | CITY OFJ EFFERSONVILLE | - | 17,921,227 | - | 17,921,227 | 0.0\% | - | - |
| 7763-200 | CITY OF KENDALLVILLE | - | 567,974 | - | 567,974 | 0.0\% | - | - |
| 7765-200 | CITY OF KOKOMO | - | 49,475,254 | - | 49,475,254 | 0.0\% | - | - |
| 7766-200 | CITY OF LAFAYETTE | - | 32,723,024 | - | 32,723,024 | 0.0\% | - | - |
| 7767-200 | CITY OF LAPORTE | - | 13,920,661 | - | 13,920,661 | 0.0\% | - | - |
| 7770-200 | CITY OF LEBANON | - | 4,164,344 | - | 4,164,344 | 0.0\% | - | - |
| 7772-200 | CITY OF LINTON | - | 463,381 | - | 463,381 | 0.0\% | - | - |
| 7773-200 | CITY OF LOGANSPORT | - | 11,126,120 | - | 11,126,120 | 0.0\% | - | - |
| 7777-200 | CITY OF MARION | - | 20,678,921 | - | 20,678,921 | 0.0\% | - | - |
| 7781-200 | CITY OF MARTINSVILLE | - | 2,703,550 | - | 2,703,550 | 0.0\% | - | - |
| 7783-200 | CITY OF MICHIGAN CITY | 23,975 | 16,403,315 | - | 16,403,315 | 0.0\% | 50,959 | 32189.24\% |
| 7784-200 | CITY OF MISHAWAKA | - | 27,139,565 | - | 27,139,565 | 0.0\% | - | - |
| 7786-200 | CITY OF MONTICELLO | - | 2,405,352 | - | 2,405,352 | 0.0\% | - | - |
| 7788-200 | CITY OF MOUNT VERNON | - | 1,227,329 | - | 1,227,329 | 0.0\% | - | - |
| 7789-200 | CITY OF MUNCIE | - | 32,772,627 | - | 32,772,627 | 0.0\% | - | - |

C. Unfunded Actuarial Accrued Liabilities and Normal Costs - Old Firefighters' Pension Funds

| Acct \# | Employer <br> Name | Normal Cost | Accrued Liability | Valuation Assets | Unfunded Accrued Liability | Funded <br> Ratio | Anticipated Payroll | Unfunded Liab. as \% of Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7792-200 | CITY OF NEW ALBANY | - | 33,203,028 | - | 33,203,028 | 0.0\% | - | - |
| 7793-200 | CITY OF NEW CASTLE | - | 5,658,859 | - | 5,658,859 | 0.0\% | - | - |
| 7795-200 | CITY OF NOBLESVILLE | - | 7,937,013 | - | 7,937,013 | 0.0\% | - | - |
| 7798-200 | CITY OF PERU | - | 8,709,329 | - | 8,709,329 | 0.0\% | - | - |
| 7800-200 | CITY OF PLAINFIELD | 24,547 | 2,515,429 | - | 2,515,429 | 0.0\% | 54,862 | 4585.01\% |
| 7801-200 | CITY OF PLYMOUTH | - | 738,587 | - | 738,587 | 0.0\% | - | - |
| 7802-200 | CITY OF PORTAGE | - | 8,671,926 | - | 8,671,926 | 0.0\% | - | - |
| 7803-200 | CITY OF PORTLAND | - | 1,338,366 | - | 1,338,366 | 0.0\% | - | - |
| 7804-200 | CITY OF PRINCETON | - | 2,237,390 | - | 2,237,390 | 0.0\% | - | - |
| 7806-200 | CITY OF RICHMOND | - | 22,743,861 | - | 22,743,861 | 0.0\% | - | - |
| 7808-200 | CITY OF ROCHESTER | - | 542,012 | - | 542,012 | 0.0\% | - | - |
| 7810-200 | CITY OF RUSHVILLE | - | 1,281,781 | - | 1,281,781 | 0.0\% | - | - |
| 7811-200 | CITY OF SALEM | - | 1,248,770 | - | 1,248,770 | 0.0\% | - | - |
| 7815-200 | CITY OF SEYMOUR | - | 6,388,311 | - | 6,388,311 | 0.0\% | - | - |
| 7816-200 | CITY OF SHELBYVILLE | - | 4,290,480 | - | 4,290,480 | 0.0\% | - | - |
| 7817-200 | CITY OF SOUTH BEND | 81,717 | 68,042,143 | - | 68,042,143 | 0.0\% | 177,003 | 38441.24\% |
| 7819-200 | CITY OF SPEEDWAY | - | 8,057,208 | - | 8,057,208 | 0.0\% | - | - |
| 7820-200 | CITY OF SULLIVAN | - | 786,186 | - | 786,186 | 0.0\% | - | - |
| 7822-200 | CITY OF TERRE HAUTE | - | 30,835,479 | - | 30,835,479 | 0.0\% | - | - |
| 7823-200 | CITY OF TIPTON | - | 1,854,423 | - | 1,854,423 | 0.0\% | - | - |
| 7824-200 | CITY OF UNION CITY | - | 469,096 | - | 469,096 | 0.0\% | - | - |
| 7825-200 | CITY OF VALPARAISO | - | 10,658,942 | - | 10,658,942 | 0.0\% | - | - |
| 7826-200 | CITY OF VINCENNES | - | 8,132,955 | - | 8,132,955 | 0.0\% | - | - |
| 7827-200 | CITY OF WABASH | - | 10,302,058 | - | 10,302,058 | 0.0\% | - | - |
| 7828-200 | CITY OF WARSAW | - | 3,738,745 | - | 3,738,745 | 0.0\% | - | - |
| 7829-200 | CITY OF WASHINGTON | - | 1,508,504 | - | 1,508,504 | 0.0\% | - | - |
| 7830-200 | CITY OF WEST LAFAYETTE | - | 9,592,169 | - | 9,592,169 | 0.0\% | - | - |
| 7831-200 | CITY OF WHITING | - | 3,899,637 | - | 3,899,637 | 0.0\% | - | - |
| 7832-200 | CITY OF WINCHESTER | 18,149 | 943,238 | - | 943,238 | 0.0\% | 35,765 | 2637.32\% |
| 7836-200 | PIKE TWP. (MARION COUNTY) | - | 3,418,602 | - | 3,418,602 | 0.0\% | - | - |
| Total |  | 315,623 | 1,445,773,764 | - | 45,773,764 | 0.0\% | 682,541 | 11822.26\% |

## CENSUS DATA

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| :--- | ---: |
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| B. Summary of Census Data | 18 |

## SECTION IV - CENSUS DATA

## A. Reconciliation of Member Data

|  | Actives | Inactive Vested | Disabled | Retired | Beneficiary | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total as of J anuary 1, 2016 | 64 | - | 149 | 4,710 | 2,557 | 7,480 |
| New Entrants | - | - | - | - | - | - |
| Rehires | - | - | - | - | - | - |
| Non-Vested Terminations | - | - | - | - | - | - |
| Vested Terminations | - | - | - | - | - | - |
| Retirements | (12) | - | - | 12 | - | - |
| Disablements | - | - | - | - | - | - |
| Death with Beneficiary | - | - | (5) | (151) | 156 | 1 - |
| Death without Beneficiary | - | - | (3) | (71) | (162) | (236) |
| Data Adjustments | - | - | - | - | 3 | 3 |
| Total as of J anuary 1, 2017 | 52 | - | 141 | 4,500 | 2,554 | 7,247 |

[^1]
## B. Summary of Census Data

| Census Information | January 1 |  | anuary 1, 2017 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Actives |  |  |  |  |
| Number |  | 64 |  | 52 |
| Average Age |  | 64.9 |  | 65.6 |
| Average Years of Service |  | 41.4 |  | 42.0 |
| Anticipated Payroll of Actives | \$ | 2,918,191 | \$ | 2,116,347 |
| Terminated Vested |  |  |  |  |
| Number |  | - |  | - |
| Average Age |  | - |  | - |
| Retiree/ Beneficiary/ Disabled |  |  |  |  |
| Number |  | 7,416 |  | 7,195 |
| Average Age |  | 75.1 |  | 75.6 |
| Projected Benefit Payments |  |  |  |  |
| Total | \$ | 213,293,983 | \$ | 211,416,946 |
| Per Retiree/ Beneficiary/ Disabled | \$ | 28,761 | \$ | 29,384 |
| Actual Benefit Payments | \$ | 214,186,485 |  | TBD |

## ACTUARIAL ASSUMPTIONS AND METHODS

PageA. Actuarial Assumptions ..... 19
B. Actuarial Methods ..... 23

## A. Actuarial Assumptions

The assumptions used in the valuation were selected and approved by the INPRS Board of Trustees. The actuary and other economic and investment professionals also provide advice to the Board for selecting the economic assumptions. In our opinion, the assumptions are reasonable for purposes of this analysis.

## Rationale for Assumptions

The demographic assumptions for converted members are based on an experience study performed on the 1977 Fund members at least every 5 years. The last study was completed in April 2015 and covered the period from 2011 to 2015. Other than the mortality assumption, the demographic assumptions for non-converted members were developed based on experience studies performed by the prior actuary and are monitored for reasonableness. The mortality table for non-converted members was set equal to the mortality table for converted members. We note that there are very few active members remaining and those who do remain are at or near assumed retirement age. For this reason, the key assumptions for our analysis are the mortality and cost of living increase assumptions. The discount rate is set based on the 20-year Municipal Bond Index rate to be consistent with the guidance under GASB for unfunded plans. The cost of living increase assumption for non-converted members is set equal to the future salary scale increase and the cost of living increase assumption for converted members is based on the expectation of CPI considering the minimum and maximum increase allowed.

## Summary of Assumptions

Unless noted otherwise, the assumptions are used for both converted and non-converted members.

Interest Rate
Future Salary Increases

Inflation

Cost of Living Increases
Non-Converted
Converted

Healthy Mortality
$3.23 \%$ per year, equal to the Barclay's 20-year Municipal Bond Index rate on the valuation date.
2.50\% per year
2.25\% per year
2.50\% per year in retirement beginningJ uly 1, 2017.
$2.00 \%$ per year in retirement beginning J uly 1, 2018. The actual cost-of-living increase of $2.5 \%$ effective J uly 1, 2017 is reflected in the liability valuation at J anuary 1, 2017.

RP-2014 Blue Collar mortality tables with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report.

## SECTIONV - ACTUARIAL ASSUMPTIONS AND METHODS

## A. Actuarial Assumptions

Disabled Mortality

Pre-Retirement Death

Disability

Disability Retirement (Converted Only)

Retirement Non-Converted

RP-2014 Disabled mortality table with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report.

Of active member deaths, $10 \%$ are assumed to be in the line of duty and $90 \%$ are other than in the line of duty.

Based on 2010-2014 experience of 1977 Fund members. Illustrative rates shown below:

| Age |  | Rate |
| :---: | :---: | :---: |
| $<=20$ |  | $0.00 \%$ |
| 25 |  | $0.10 \%$ |
| 30 |  | $0.10 \%$ |
| 35 |  | $0.16 \%$ |
| 40 |  | $0.26 \%$ |
| 45 |  | $0.36 \%$ |
| 50 |  | $0.46 \%$ |
| 55 |  | $0.56 \%$ |
| 60 |  | $0.66 \%$ |
| $62+$ |  | $0.70 \%$ |

For members hired after 1989 that become disabled, $1 \%$ are assumed to sustain a catastrophic disability and receive the enhanced disability benefit ( $100 \%$ of salary) added by 2017 House Enrolled Act No. 1617, 44\% are assumed to sustain a Class 1 disability (at $65 \%$ of salary), $10 \%$ are assumed to sustain a Class 2 disability (at $50 \%$ of salary), and $45 \%$ are assumed to sustain a Class 3 disability (at 36\% of salary). For members hired before 1989 that become disabled, $1 \%$ are assumed to sustain a catastrophic disability and receive the enhanced disability benefit (100\% of salary) added by 2017 House Enrolled Act No. 1617 and 99\% are assumed to sustain a non-catastrophic disability and receive their accrued retirement benefit.

Based on 1976 experience study. Illustrative rates shown below:

| Years of Service | Police <br> Rate | Fire <br> Rate |
| :---: | :---: | :---: |
| 20 | 50.0\% | 20.0\% |
| 25 | 25.0\% | 30.0\% |
| 30 | 20.0\% | 20.0\% |
| 35 | 10.0\% | 10.0\% |
| 40 | 15.0\% | 10.0\% |
| 45 | 30.0\% | 50.0\% |
| 47+ | 100.0\% | 100.0\% |
|  |  | 20 |

## SECTION V - ACTUARIAL ASSUMPTIONS AND METHODS

## A. Actuarial Assumptions

## Retirement (continued)

Non-Converted (continued)

Converted

Termination

Decrement Timing
Spouse/Beneficiary

If the member is at least age 65 with 32 or more years of service, the assumed retirement rate is $100 \%$. As of J anuary 1, 2017, there are 26 non-converted active members remaining with an average age of 65 years and average service of 42 years. 14 of the 26 non-converted active members are assumed to retire immediately.
Based on 2010-2014 experience of 1977 Fund members. Illustrative rates shown below:

| Ages | Service $<32$ | Service $>=32$ |
| :---: | :---: | :---: |
| 50-51 | 10.0\% | 20.0\% |
| 52-57 | 10.0\% | 20.0\% |
| 58-61 | 15.0\% | 20.0\% |
| 62-64 | 20.0\% | 20.0\% |
| 65-69 | 50.0\% | 50.0\% |
| 70+ | 100.0\% | 100.0\% |

As of J anuary 1, 2017, there are 26 converted active members remaining with an average age of 66 years and average service of 42 years. 4 of the 26 converted active members are assumed to retire immediately.

Based on 2010-2014 experience of 1977 Fund members. Illustrative rates shown below (note that all active members have greater than 20 years of service):

| Service |  | Rate |  | Service |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $10.0 \%$ |  | Rate |
| $12-19$ |  | $1.0 \%$ |  |  |
| 2 |  | $5.0 \%$ |  | $20+$ |
|  |  | $2.0 \%$ |  |  |
| $3-4$ |  | $3.0 \%$ |  |  |
| 5 |  |  |  |  |
| $6-8$ |  | $2.5 \%$ |  |  |
| $9-11$ |  | $1.5 \%$ |  |  |

Decrements are assumed to occur at the beginning of the year.
$80 \%$ of male members and $50 \%$ of female members are assumed to be married or to have a dependent beneficiary. Male members are assumed to be three (3) years older than female beneficiaries and female members are assumed to be the same age as male beneficiaries. Members are assumed to have no dependent children.

The Single Life Annuity and 60\%J oint and Survivor payment form options are assumed to be provided to each member based on the assumed marriage assumption listed above.

## SECTIONV - ACTUARIAL ASSUMPTIONS AND METHODS

Data Assumptions

DROP Participation

Changes in Assumptions

## A. Actuarial Assumptions

Assumed age difference between members and beneficiaries is as noted above.
Members are assumed to be male and survivors/ beneficiaries are assumed to be female.
No data is provided on DROP participation from INPRS, therefore it is assumed that the remaining active members will not participate in the DROP.

The interest rate assumption, which is set equal to the Barclay's 20 -year
Municipal Bond Index rate as of the valuation date, increased from $2.59 \%$ for the J anuary 1, 2016 valuation to $3.23 \%$ for the J anuary 1,2017 valuation.

For disabled participants, the mortality assumption was updated to the RP-2014 Disabled mortality table with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report, from the RP-2014 Healthy mortality table with MP-2014 improvement removed, and with future mortality improvement projected generationally using future mortality improvement inherent in the Social Security Administration's 2014 Trustee report.

To incorporate the plan change in regards to House Enrolled Act Number 1617, $1 \%$ of future disabled participants are assumed to receive the enhanced benefit.

## SECTIONV - ACTUARIAL ASSUMPTIONS AND METHODS

## B. Actuarial Methods

The actuarial methods used in this valuation were selected and approved by the Board. In our opinion, the actuarial methods are reasonable for the purposes of this valuation.

1. Actuarial Cost Method

Benefits are funded on a pay-as-you-go basis. However, the actuarial accrued liabilities are computed using the Entry Age Normal - Level Percent of Payroll actuarial cost method.

The normal cost is calculated separately for each active member and is equal to the level percentage of payroll needed as an annual contribution from entry age to retirement age to fund projected benefits. The actuarial accrued liability on any valuation date is the accumulated value of such normal costs from entry age to the valuation date. Note, for an active member who is assumed to immediately retire, the normal cost is zero as their benefit is fully accrued.
2. Asset Valuation Method

Not Applicable.
3. Changes in Actuarial Methods

There have been no changes in the actuarial methods since the J anuary 1, 2016 valuation.

## SUMMARY OF PLAN PROVISIONS

PageA. Summary of Plan Provisions ..... 24

## SECTION VI - SUMMARY OF PLAN PROVISIONS

## A. Summary of Plan Provisions

The benefit provisions for the Old Police and Fire Funds are set forth in IC 36-8-6, 36-8-7, and 36-8-7.5. Unless specifically denoted, provisions for Converted and Non-Converted members are the same. A summary of those benefit provisions is presented below:

Participation All full-time, fully-paid police officers and firefighters who were hired before May 1, 1977 (all plans), or rehired between April 30, 1977 and February 1, 1979 (1925 Police Pension Fund and 1937 Firefighter's Pension Fund only).

Eligibility for Annuity Benefits
a. Normal Retirement

Non-Converted Any age with 20 or more years of creditable service.
Converted Age 52 with 20 or more years of creditable service.
b. Early Retirement

Non-Converted Any age with 20 or more years of creditable service. Converted Age 50 with 20 years of vested service.
c. Late Retirement Subject to continued employment after normal retirement.
d. Disability Retirement As determined by a disability medical panel.
e. Vested Termination 20 or more years of creditable service and no longer active.
f. Pre-Retirement Death Immediate.

## Amount of Benefits

a. Normal Retirement
$50 \%$ of the base salary of a First Class Police Officer and Firefighter with 20 years of service, plus an additional $1 \%$ for each completed 6 months of service over 20 years up to a maximum of $74 \%$ with 32 years of service.
b. Early Retirement

| Non-Converted | Not Applicable. Non-Converted members may retire without a benefit reduction at any age after attaining 20 |
| :--- | :--- |
| years of creditable service. |  |

## A. Summary of Plan Provisions

## Amount of Benefits (continued)

c. Late Retirement
d. Disability Retirement Non-Converted

The late retirement benefit is calculated in the same manner as the normal retirement benefit. Creditable service and earnings earned after normal retirement are included in the computation.

The disability benefit is equal to a sum determined by the local board, but not exceeding 55\% of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter. If a member has more than 20 years of service, the disability benefit, if greater, will be equal to the pension the member would have received if the member had retired on the date of disability. Time spent receiving disability benefits is considered active service for the purpose of determining retirement benefits until the fund member has a total of 20 years of service. If the disability is considered to have occurred while on duty or due to a duty related disease then the member is entitled to have the amount of the disability benefit to be computed as a retirement benefit when the fund member becomes age 55 .

Converted
Hired
Before
1990
This disability benefit is only available to members hired prior to J anuary 1,1990 and who do not choose to be covered by the disability benefit for members hired after 1989. The disability benefit is equal to the benefit the member would have received if the member had retired. If the member does not have 20 years of service or is not at least age 52 on the date of disability, the benefit is computed as if the member does have 20 years of service and is age 52 on the date of disability.

## House Enrolled Act Number 1617 Enhanced Disability Benefit:

For catastrophic physical personal injuries that result in a degree of impairment of at least $67 \%$ and permanently prevents the member from performing any gainful work, the member will receive a disability benefit equal to $100 \%$ of base salary. Additionally, the benefit is increased by the increase in the base salary.

Hired This disability benefit is for members hired after 1989, or hired prior to J anuary 1, 1990, who have chosen to be
After
1990 covered by this disability benefit. The following describes the three different classes of impairments and the amount of base benefit for each class:

## A. Summary of Plan Provisions

## Amount of Benefits (continued)

[^2]
## A. Summary of Plan Provisions

Amount of Benefits (continued)
e. Termination (continued)

Converted If termination occurs after earning 20 years of service, the termination benefit is the accrued retirement benefit determined as of the termination date and payable commencing on the normal retirement date.

If termination occurs before completing 20 years of active service, the member shall be entitled to the member's contributions plus accumulated interest.
f. Pre-Retirement Death

Surviving Spouse
Non-Converted If a member dies other than in the line of duty, the spouse's benefit is equal to the greater of $30 \%$ of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter or $55 \%$ of the monthly benefit the member was receiving or was entitled to receive on the date of death.

If a member dies in the line of duty, the spouse's benefit is equal to the greater of $50 \%$ of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter or $100 \%$ of the monthly benefit the member was receiving or was entitled to receive on the date of death.

Converted If a member dies other than in the line of duty, the spouse's benefit is equal to $60 \%$ of the monthly benefit the member was receiving or was entitled to receive on the date of death.

If a member dies in the line of duty, the spouse's benefit is equal to the monthly benefit the member was receiving or was entitled to receive on the date of death

In either case, if the member does not have 20 years of service or is not at least age 52 on the date of death, the benefit is computed as if the member does have 20 years of service and is age 52 on the date of death.

## Children

Non-Converted
Not a Line of Duty Death
A payment shall be made to each child of a deceased member equal to an amount set by ordinance but at least $20 \%$ of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter until the later of (a) the date the child becomes age 18, (b) the date the child becomes age 23 if enrolled in a qualified school, or (c) during the entire period of the child's disability. Total benefits payable to a surviving spouse and surviving children may not exceed the retirement benefit of the member.

## SECTIONVI - SUMMARY OF PLAN PROVISIONS

## A. Summary of Plan Provisions

Amount of Benefits (continued)
f. Pre-Retirement Death (Continued)

Non-Converted
(continued) Line of Duty Death
A payment shall be made to each child of a deceased member less than age 18 equal to an amount set by ordinance but at least $20 \%$ of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter until the later of (a) when the child becomes age 18, (b) when the child becomes age 23 if enrolled in a qualified school, or (c) during the entire period of the child's disability. An additional amount shall be payable under the same conditions as the preceding sentence in an amount set by ordinance, but the total additional benefit to all the member's children may not exceed a total of 30\% of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter. The limitation of the additional amount shall not apply to any disabled children.

Converted A payment shall be made to each child of a deceased member equal to $20 \%$ of the member's benefit until the later of (a) the date the child becomes age 18, or (b) the date the child becomes age 23 if enrolled in a qualified school. If a child is at least 18 and is mentally or physically incapacitated, the child is entitled to an amount equal to the greater of $30 \%$ of the base salary, or $55 \%$ of the member's benefit payable for the duration of the incapacity. If the member does not have 20 years of service or is not at least age 52 on the date of death, the benefit is computed as if the member does have 20 years of service and is age 52 on the date of death.

Dependent Parents
Non-Converted If a deceased member leaves no surviving spouse and no qualified child but does leave a dependent parent or parents, an amount equal to $20 \%$ of the monthly salary (with longevity pay) of a First Class Police Officer or Firefighter shall be paid to the parent or parents jointly during their dependency. If the salary (with longevity pay) of a First Class Police Officer or Firefighter is increased or decreased, the pension payable shall be proportionately increased or decreased.

Converted If a deceased member leaves no surviving spouse and no qualified child but does leave a dependent parent or parents, an amount equal to $50 \%$ of the member's benefit shall be paid to the parent or parents jointly during their lifetime. If the member does not have 20 years of service or is not at least age 52 on the date of death, the benefit is computed as if the member does have 20 years of service and is age 52 on the date of death.

## SECTION VI - SUMMARY OF PLAN PROVISIONS

## A. Summary of Plan Provisions

Amount of Benefits (continued)
g. Additional Death Benefits

A funeral death benefit is paid to the heirs or estate upon the member's death from any cause and is equal to at least $\$ 12,000$. An additional death benefit of $\$ 150,000$ is paid from the Pension Relief Fund to a surviving spouse, children, or parent(s) if death occurs in the line of duty.
h. Member Contributions

Non-Converted Not applicable.

Converted After conversion, members are assumed to contribute to the 1977 Fund at the rate of 6\% of salary until they have completed 32 years of service.

Withdrawal from Fund
Non-Converted

Converted

Deferred Retirement Option Plan ("DROP")

Not applicable.

If a member's employment is terminated prior to eligibility for a retirement annuity, the member may withdraw their contributions from the 1977 Fund.

The DROP is an optional form of benefit, which allows members who are eligible for an unreduced retirement benefit to continue to work and earn a salary while accumulating a DROP benefit payable in a lump sum or three annual installments. A member who elects to enter the DROP shall execute an irrevocable election to retire on the DROP retirement date. The member shall select a DROP retirement date not less than 12 months and not more than 36 months after the member's DROP entry date. While in the DROP, the member shall continue to make applicable fund contributions.

When a member enters the DROP, a "DROP frozen benefit" will be calculated. This is equal to the member's monthly retirement benefit based on accrued service and base salary as of the date member enters the DROP. Upon DROP retirement, the member is eligible to receive a lump sum equal to the amount of the DROP frozen benefit multiplied by the number of months in the DROP. You may elect to receive this amount in three annual installments instead of in a single lump sum. In addition, the member will receive a monthly retirement benefit equal to the DROP frozen benefit. The member will not continue to accrue service credit for the years in the

## A. Summary of Plan Provisions

Deferred Retirement Option Plan ("DROP") (Continued)

Forms of Payment

Single Life
Annuity

J oint with 60\%
Survivor Benefits

Cost-of-Living Adjustments
Non-Converted

Converted

Changes in Provisions

DROP. Cost of living adjustments will not apply to the frozen monthly benefit while in the DROP. The cost of living adjustments will begin to be applied to the frozen monthly benefit, however, in the year after the year in which the member retires.

If the member elected to participate in the DROP, the member may, upon retirement, elect to forego DROP benefits, and instead receive monthly retirement benefits calculated as if the member never elected to participate in the DROP. These benefits would be based on accrued service and base salary as of the date the member retires.

Single members will receive a monthly benefit for life, but there are no monthly payments to anyone after death.

Married members will be paid a monthly benefit for life. After death, $60 \%$ of the benefit will be paid to the beneficiary for their lifetime.

Benefits for retired members are increased annually based on increases in the first class salary per employer.

Benefits for retired members are increased annually based on increases in the CPI-U index. The increase is subject to a $3 \%$ maximum and $0 \%$ minimum.

It is our understanding that the only change to the benefit provisions was in regards to the enhanced disability benefit per House Enrolled Act Number 1617 that occurred since the J anuary 1, 2016 valuation.

DEFINITIONS OF TECHNICAL TERMS
$\begin{array}{lr} & \text { Page } \\ \text { A. Definitions of Technical Terms } & 31\end{array}$

## SECTION VII - DEFINITIONS OF TECHNICAL TERMS

## A. Definitions of Technical Terms

Actuarial Accrued Liability (AAL)

Actuarial Assumptions

Actuarial Cost Method

Actuarially Equivalent

Actuarial Gain/ (Loss)

Actuarial Present Value

Actuarial Valuation

Actuarial Valuation Date

Creditable Service

Funding Policy

That portion, as determined by a particular Actuarial Cost Method, of the Present Value of Future Benefits (PVFB) and expenses which is not provided for by future Normal Costs. Generally this means the portion of the PVFB attributable to past service.

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement and retirement, changes in compensation and interest rates.

A procedure for determining an actuarially equivalent allocation of the Present Value of Future Benefits to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.

A method of making the actuarial present value of two series of payments equal as of a given date using the same assumptions.

The difference between actual unfunded Actuarial Accrued Liability and anticipated unfunded Actuarial Accrued Liability during the period between two valuation dates. It is a measurement of the difference between actual and expected experience.

The single amount now that is equal to a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest and by probabilities of payment.

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

The date as of which an actuarial valuation is performed.

Service credited under the system that was rendered before the date of the actuarial valuation.

The program for the amounts and timing of contributions to be made by plan members, employer, and other contributing entities (for example, state government contributions to a local government plan) to provide the benefits specified by a pension plan.

## A. Definitions of Technical Terms

Normal Cost (NC)

Plan Assets

Plan Members

Present Value of Future Benefits (PVFB)

That portion of the present value of future benefits which is allocated to a valuation year by the Actuarial cost Method. The normal cost is specific to the cost method used.

Resources, usually in the form of stocks, bonds, and other classes of investments, that have been segregated and restricted in a trust, or equivalent arrangement, in which (a) employer contributions to the plan are irrevocable, (b) assets are dedicated to providing benefits to retirees and their beneficiaries, and (c) assets are legally protected from creditors of the employer(s) or plan administrator, for the payment of benefits in accordance with the terms of the plan.

The individuals covered by the terms of a pension plan. The plan membership generally includes employees in active service, terminated employees who have accumulated benefits but are not yet receiving them, and retired employees and beneficiaries currently receiving benefits.

Projected benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members upon retirement) as a result of their service through the valuation date and their expected future service. The actuarial present value of projected future benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment (taking into account mortality, turnover, probability of participating in plan retirement, etc.). Alternatively, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay the projected benefits when due.


[^0]:    PricewaterhouseCoopers LLP, One North Wacker, Chicago, IL 60606
    T: (312) 298-2000, F: (312) 298-2001, www.pwc.com/

[^1]:    ${ }^{1}$ Includes 11 deceased members without a beneficiary whose death benefits of $\$ 12,000$ is pending payment and expected to be paid during 2017.

[^2]:    d. Disability Retirement

    Hired
    After
    1990
    (continued)
    ment:
    A personal injury that occurs while on duty, while responding to an emergency, or due to an occupational disease. The disability benefit is equal to a base benefit of $45 \%$ of base salary, plus an additional amount between $10 \%$ and $45 \%$ of this salary based on degree of impairment. The benefit is payable for life, at which time the member is entitled to a retirement benefit based on the salary and service the member would have earned had the member remained in active service.

    ## Class 2 Impairment:

    A proven duty-related disease. The disability benefit is equal to a base benefit of $22 \%$ of base salary, plus an additional $0.5 \%$ of this salary for each year of service up to a maximum of 30 years of service, plus an additional amount between $10 \%$ and $45 \%$ of this salary based on degree of impairment. If the member's total benefit is less than $30 \%$ of this salary and the member has fewer than 4 years of service, then the benefit is payable for a period equal to the years of service of the member. Otherwise, the benefit is payable for life.

    Class 3 Impairment:
    All other impairments that are not Class 1 or Class 2. The disability benefit is equal to a base benefit of $1 \%$ of base salary for each year of service up to a maximum of 30 years of service, plus an additional amount between $10 \%$ and $45 \%$ of this salary based on degree of impairment. If the member's total benefit is less than $30 \%$ of this salary and the member has fewer than 4 years of service, then the benefit is payable for a period equal to the years of service of the member. Otherwise, the benefit is payable until age 52, at which time the member is entitled to a retirement benefit based on 20 years of service.

    ## House Enrolled Act Number 1617 Enhanced Disability Benefit:

    For catastrophic physical personal injuries that result in a degree of impairment of at least $67 \%$ and permanently prevents the member from performing any gainful work, the member will receive a disability benefit equal to 100\% of base salary. Additionally, the benefit is increased by the increase in the base salary.
    e. Termination

    Non-Converted If termination occurs after earning 20 years of service, the member is entitled to the "Normal Retirement" benefit described above.

    If termination occurs before completing 20 years of service, no benefits are payable.

