## TOWN OF TIVERTON, RHODE ISLAND TOWN COUNCIL 343 HIGHLAND ROAD

## RESOLUTION OF THE TIVERTON TOWN COUNCIL TIVERTON POLICE PENSION FUNDING IMPROVEMENT PLAN MARCH 11, 2013

Resolved: By the Town Council of the Town of Tiverton that Option One of the Funding Improvement Plan for the Tiverton Police Pension Plan is hereby approved.

The Funding Improvement Plan is to increase the funding contribution rate of the system beginning in fiscal year 2012-2013 to $119 \%$ of the recommended contribution. The FIP will be maintained as defined. The amortization period for the current unfunded liability will be changed from 25 years on a rolling or open method to 25 years on a closed method in the determination of the recommended contribution.

The pension contribution increased from $\$ 550,000$ in $F Y 12$ to $\$ 700,000$ in $F Y 13$. The impact of this increase was already planned for in this year's budgetary process. Furthermore, the Town plans to sustain that level of funding going forward; and the impact of that increase has been mitigated by prudent management of our expenses.

BY COUNCIL, ADOPTED AND ORDERED THE 11th day of MARCH, 2013.


ATTEST:
Marcy
Nancy $L$ Hello

# TOWN OF TIVERTON, RHODE ISLAND OFFICE OF TOWN ADMINISTRATOR 

October 24, 2012

RI Department of Revenue<br>Rosemary Booth Gallogly, Chairperson<br>Pension Study Commission<br>One Capitol Hill<br>Providence, RI 02908-58555

Dear Ms Gallogly:
Enclosed you will find the Funding Improvement Plan: (FIP) for the Tiverton Police Pension Plan. This was prepared by our Actuary in conjunction with our Pension Administrator and mernbers:of the Board of Trustees. The FIP has been reviewed and approved by the entire Board of Trustees:

In your review, you will find that we are forecasting emerging fromi" "critical status" in approximately eight (8) years, Exhibit B. Our contribution for the Fiscal - Year 2012-2013 exceeded our Ânuial Required Contribution (ARC) and as the budgetary impact has already been absorbed, we should be able to maintain that ARC for a few years.

Should you have questions subsequent to your review, please contact me at 401.625.6710.

Sincerely,

James C, Goncalo, Chairperson
Board of Trustees
Tiverton Police Pension
cc: Board of Trustees
Tiverton Town Council
Compensation Planning
McLoud \& Nichols
Town Hall + 343 Highland Road + Tiverton, Rhode Island 02878-4499 + Phone (401) 625-6710 + Fax (401) 625-6777
E-Mail: townadministrator@townoftivertonri.com

## TOWN OF TIVERTON

## FINANCIAL IMPROVEMENT PLAN

## Executive Summary

In accordance with Rhode Island General Laws Section 45-65-6, the Town is submitting this Funding Improvement Plan (Plan) to the Locally-Administered Pension Plans Study Commission. The Town completed an actuarial valuation as of July 1, 2012 and an experience study as of July 1, 2011. Based on these results the funded status of the pension system is $50.6 \%$ and therefore, considered in critical status.

In the pages that follow we will describe our plans for increasing this ratio to the point that the plan is no longer considered in critical status. The local governing body for the Town has adopted Option number 1, in order to emerge from critical status. This will be accomplished through increased funding contributions. We expect to achieve this goal in about 8 years.

## Current Funding

The Town has accepted the recommendations of our actuary for increasing the current contribution rate. Based on these results, the actuary is recommending a pension contribution of $\$ 700,000$ to the trust based on a 25 year amortization with payments remaining at that level for no less than 8 years. The City has budgeted $\$ 700,000$ for fiscal year 2012-2013, or $119 \%$ of the recommended contribution. This also represents $1.72 \%$ of our revenue. For fiscal year 20112012, the Town contributed $81 \%$ of the recommended contribution.

## Option 1 Future Funding

The Funding Improvement Plan is to increase the funding contribution rate of the system beginning in fiscal year 2012-2013 to $119 \%$ of the recommended contribution. The FIP will be maintained as defined. The amortization period for the current unfunded liability will be changed from 25 years on a rolling or open method to 25 years on a closed method in the determination of the recommended contribution. Exhibit A shows the forecast of key values prior to the aforementioned changes and Exhibits B and C show the forecast of key values after such changes are made with Exhibit C using an interest rate assumption that is $0.5 \%$ lower than the currently assumed rate. Exhibits D and E describe the actuarial assumptions and plan provisions, respectively.

The Pension contribution increased from $\$ 550,000$ in FY12 to $\$ 700,000$ in FY13. The impact of this increase was already planned for in this year's budgetary process. Furthermore, the Town
plans to sustain that level of funding going forward; and the impact of that increase has been mitigated by prudent management of our expenses.

## Plan Changes

The Town does not intend to negotiate reductions in the pension benefits provided to current active and retired plan participants at this time.

## Options 2-4 Future Funding

Discussions regarding a Funding Improvement Plan also included the following possible scenarios:

Option 2 - Elimination of the COLA provision for future and possibly current retirees Option 3 - Require 25 years of Credited Service for all current active participants to reach eligibility for Normal Retirement
Option 4 - Freeze all benefits in the current plan effective July 1, 2015
Option 1 as outlined in this report was deemed to be a feasible solution to the Town and one that is anticipated to meet the goal of emerging from critical status in less than a decade.

The Town of Tiverton is confident that this goal can be met under the Funding Improvement Plan detailed here.

The attached report provided by the Plan's actuary contains the required supporting documentation for the Funding Improvement Plan described in this report.

# McCloud \& Nichols <br> QUALIFIED PLAN CONSULTING AND ADMINISTRATION 

205 W. KANSAS
LIBERTY, MO 64068
(816) 792-3838 * Fax (816) 792-8350

October 19, 2012
Mr. James Goncalo
Town Administrator
343 Highland Road
Tiverton, Rhode Island 02878
Town of Tiverton Police Department Pension Plan
Funding Improvement Plan information and Exhibits

## Dear James:

McCloud \& Nichols was asked to perform a study of the projected assets, liabilities and funding obligations of the Plan in order to assist with the preparation of a Funding Improvement Plan in accordance with Rhode Island General Laws Section 45-65-6.

The exhibits contained in this report are intended to supplement the Funding Improvement Plan that the Town of Tiverton will ultimately submit to the State of Rhode Island. Revenue forecast information was provided by the Town.

The studies contained herein have been conducted in accordance with generally accepted actuarial principles and practices. The employee data and Plan asset data is the same as that used in the Actuarial Valuation Report issued for the Plan on August 6,2012. The actuarial assumptions, methods and plan provisions used for these studies are also the same as those used in the Actuarial Valuation Report issued for the Plan on August 6, 2012 unless otherwise noted.

This report is only valid when presented in its entirety and is intended for use by the Town Administrator. It must not be reproduced without permission or used for any purpose other than as stated herein.

Neither the signing actuary nor the firm of McCloud \& Nichols has a conflict of interest that would impair the objectivity of our work. The undersigned meets the Qualification Standards for Prescribed Statements of Actuarial Opinion promulgated by the American Academy of Actuaries.

Respectfully submitted,


[^0]Exhibis A - Forecost of Key Valuers
Town of Tiverton Police Deparimert Pension Ptant

|  |  |  |  |  |  |  |  | Contributan |  |  |  |  |  |  | Cartribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Beginning | Payment Againat tha ARC | Employer Normal Cost | Arnortzalion | ARC | Contrbution | increato | Phyroll | $\begin{aligned} & \text { NF is } 8 \% \\ & \text { of Paymill } \end{aligned}$ | Benaft Payments | Ansels | Accrued Lindtly | Unuunded Uability | Funded Fatlo | Revenve Forama | of Revenue |
| 2012 | 100\% | 171.429 | 377961 | 590,573 | 590,573 |  | 1.473.196 | 40.2\% | 712319 | 8,804,419 | 13,228,181 | 6,533,765 | 50,5\% | 40,471,001 | 1.45\% |
| 2013 | 100\% | 177,429 | 402,028 | 62,917 | 62,817 | 55\% | 1,524,758 | 40.9\% | 771904 | 7,048,048 | 13,655,559 | 6,617,519 | 59.6\% | 42337,809 | 1.47\% |
| 2014 | 100\% | 183,639 | 405,924 | 633.781 | 633,781 | 1.7* | 1,578,124 | 40,2\% | 805.649 | 7,388,718 | 14,080332 | 5,589,544 | 525\% | 43,489,285 | $1.45 \%$ |
| 2015 | 100\% | 190,067 | 409,858 | 644,979 | 64919 | 1.e\% | 1,603,359 | 39,5\% | 855,477 | 7,754,542 | 14,497,941 | 6,746,399 | 53,5\% | 4,732,363 | 1.44\% |
| 2015 | 100\% | 196,719 | 413,830 | 656,341 | E56,341 | 1.8X | 1,680,525 | 39.8x | 909870 | 8,072.947 | 14,691,728 | 6,811,781 | 54.3\% | 15,558,000 | 1,43\% |
| 2017 | 100\% | 200,504 | 417,647 | 668,054 | 668,054 | 1.8\% | 1,748,655 | 38,2\% | 966,452 | 8,398,253 | 15,276,091 | 6,877,788 | 55.0\% |  |  |
| 2078 | 100\% | 210,731 | 421,890 | 680,057 | 530,067 | 1.8\% | 1,810,934 | 37.6\% | 975,090 | 8,600,525 | 15,657,978 | 6,946,453 | 855\% |  |  |
| 2015 | 100\% | 218,906 | 425,979 | 692,392 | 692,392 | 1.8\% | 1,1874,317 | 38.9\% | 1,000,320 | 9,012,913 | 16,024,669 | 7,011,755 | 56.2\% |  |  |
| 2020 | 100\% | 225.740 | 430,107 | 705.036 | 705,036 | 1.8\% | 1,833,918 | 36.3\% | 1,002318 | 0,343,442 | 16,423,751 | 7,079,709 | 56.9\% |  |  |
| 2021 | 100\% | 233,641 | 434276 | 711,010 | 718,010 | 18\% | 2007,815 | 35.8\% | 1,167,123 | 9,647,081 | 18,785,403 | 7,148,322 | 57.4\% |  |  |
| 2022 | 100\% | 241,898 | 438,485 | 731,325 | 739,325 | 19\% | 2070,083 | 35.2\% | 1,497995 | 9,877,732 | 17.095,331 | 7,217,500 | 57.3\% |  |  |
| 2023 | 109\% | 250,282 | 482,734 | 744,992 | 744.992 | 1.9\% | 2150,682 | 34.5\% | 1,235,353 | 10,105,967 | 17,394,515 | 7287,519 | 55.7\%* |  |  |
| 2024 | 100\% | 259,042 | 447,025 | 759,021 | 759.021 | 1.5\% | 2235,100 | 34,4\% | 1,262.856 | 10,328,303 | 17,685,478 | 7,358,176 | 58.4\% |  |  |
| 2025 | 100\% | 2889.108 | 451,357 | 773,425 | 773,425 | 19\% | 2304,014 | 33,656 | 1,342,256 | 10,551,734 | 17,981,281 | 7,429,477 | 58,7\% |  |  |
| 2025 | 100\% | 277,492 | 455,732 | 788,245 | 788,215 | 1.8\% | 2384,654 | 33.1\% | 1,356,473 | 10,723,949 | 18,225,438 | 7,501400 | 56.8X |  |  |
| 2023 | 100\% | 287,204 | 450,148 | 803,404 | 803.404 | 4.85 | 2450.117 | 328\% | 1,389,321 | 10,509,119 | 10,483,309 | 7,54.150 | 50.0\% |  |  |
| 2028 | 100\% | 297,256 | 454,808 | 819,004 | 899,004 | 4.9\% | 2,554,501 | 321\% | 1,420,888 | 17,087,595 | 18,745,889 | 7,657,595 | 562\% |  |  |
| 2029 | 400\% | 307.650 | 469,110 | 825,028 | 835,008 | 20\% | 2560,809 | 31.65 | 1.400,334 | 11,274,740 | 19.986,451 | 7,721,712 | 50,4\% |  |  |
| 2030 | 100\% | 318,423 | 473,65] | 851,431 | 851,491 | 20\% | 2736,445 | 31.18 | 1,560.525 | 11,418,527 | 19,216,073 | 7,786546 | 38,4\% |  |  |
| 2031 | 500\% | 323,573 | 478,247 | 869,407 | 858,407 | 20\% | 2,832729 | 30.7\% | 1,577,785 | 11,508,438 | 19,380,544 | 7,872,106 | $59.4 \times$ |  |  |
| 2032 | 100\% | 34,108 | 482882 | 885,790 | 885,790 | 20\% | 2531,349 | 30.2\% | 1,583,376 | 11,503,025 | 19,531,423 | 7.540338 | 58.35 |  |  |
| 2033 | 100\% | 353,047 | 487.562 | 973,655 | 973,655 | 20\% | 3,003,985 | 29888 | 4,658249 | 11,716,289 | 19,741,799 | 8.028,430 | 58,3\% |  |  |
| 2034 | 100\% | 365,404 | 492287 | 922.018 | 922,018 | 20\% | 3,140,134 | 20.4\% | 1,609,560 | 11.830,107 | 13,883,315 | 8,103,200 | 583\% |  |  |
| 2035 | 100\% | 378,993 | 497,058 | 940,895 | 940,895 | 20\% | 3,250,035 | 29.0\% | 1,632.569 | 11.983,348 | 20,120,059 | 0,181,740 | 59.3\% |  |  |
| 2036 | 400\% | 391,430 | 501,875 | 950,303 | 960,303 | 2.1\% | 3,353,790 | 28.5\% | 1,656,523 | 12080,693 | 20,341,726 | 8,231,083 | 59.48 |  |  |
| 2037 | 100\% | 405,130 418300 | 50\%,739 | -980,259 | 880,259 | 21\% | $3,451,523$ 3,60376 | $\frac{288 \%}{88 \%}$ | 1,655,529 | 12,280,069 | 20,569,183 | 8,344,094 | $59.4 \%$ $59.6 \times$ |  |  |
| 2038 | 100\% | 419,309 | 511,650 | 1,000,78\% | 1,000,781 | 21\% | 3,603,376 | 2, 日\% | 1.651,794 | 12,407,846 | 20,829,775 | 8,421,932 | 59.6\% |  |  |

 Those dexeriptions should be connidered to be a part of his summary report


Exhibit B- Forcoust of Kry Valuer-Revised Contribution Level
Exhibit R . Forecast of Kcy Valuer-Revised Contrib
Tonn of Tiveron Police Department Pension Plam
Town of 7 verton Polise Department Pension Plan
Projection of Furnded Semur and Recommended Contributions
Current Forecost of Atuarial Valuarion Resulus - 25 year ClosedAmortization - increace contribution Level to a minimumr of 5700,000

|  | Payment Agyinst | Employer |  |  |  |  |  | contribution sen \% | Emeaft |  | Accrued | Unfunder | Funded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beginning | tho ARC | Notmal Cost | Amortzation | ARC | Contribution | Inerease | Prytolt | of Paycon | Payments | Agsols | Lablity | Usbility | Ratlo |
|  |  | 171,429 | 377,941 | 550,573 | 700,000 |  | 1,473,196 | 47.5\% | 712319 | 5,694,445 | 43,228,981 | 6,533,765 | 50.5\% |
| 2013 | 117\% | 178,287 | 376,455 | 596,347 | 700,000 | 0.0\% | 1,532,124 | 45.7\% | 771,904 | 7,157,475 | 13,585,559 | 6,508,004 | 524\% |
| 2014 | 114\% | 1895,418 | 385,357 | 613,583 | 700,000 | 0.0\% | 1,558,409 | 43.5\% | 805,648 | 7,593,435 | 14,091,283 | 6,487.848 | 53.9\% |
| 2075 | 111\% | 192.835 | 395,492 | 632451 | 700,000 | 0.0\% | 1,657,145 | 42\% | 685,427 | 3,027,083 | 14,500,844 | 5,473,761 | 55.4\% |
| 2015 | 107\% | 200548 | 407.059 | 653,178 | 700,000 | 0.0\% | 1,723,431 | 40.6\% | 909,870 | 8,431,238 | 14,897,824 | 6,456.591 | 56.5\% |
| 2017 | 104\% | 208,570 | 420,299 | 676,034 | 700,000 | 0.0\% | 1,782,368 | 39.1\% | 985,452 | B,819,585 | 15,288,760 | 6,457.174 | 57.7\% |
| 2018 | 100\% | 276,913 | 435,499 | 701,343 | 701,343 | 0.2\% | 1,854,063 | 37.6\% | 976,090 | 9,178,351 | 15.654,785 | 6,476.425 | 58.5\% |
| 2019 | 100\% | 228,599 | 452.919 | 729,357 | 72,397 | 4.0\% | 1,939,5z | 37.6\% | 1,000,320 | 9,555,387 | 16,049,383 | 6,493,596 | 59.5\% |
| 2020 | 300\% | 234,513 | 479,035 | 758,573 | 759,573 | 4.0\% | 2016,170 | 37.6\% | 4,062318 | 9,963,506 | 15,457,763 | 6,494.157 | 60.5\% |
| 2021 | 100\% | 243,997 | 499,877 | 788,915 | 788.915 | 4.0\% | 2096,817 | 37.6\% | 1,157,123 | 10,35,204 | 16,842,143 | 5,474,855 | 67,5\% |
| 2022 | 100\% | 283,757 | 509,472 | 820,472 | 820,472 | 4.0\% | 2,180,890 | 37.6\% | 1,197,995 | 10,722,867 | 17,156,748 | 6,433,859 | 625\% |
| 2023 | 100\% | 260,908 | 529,851 | 853,201 | 853,291 | 4.0\% | 2257,918 | 37.6\% | 1,235,353 | 11.104,634 | 17,473,341 | 6,368,707 | 60.68 |
| 2024 | 100\% | 274,454 | 557,045 | 887,423 | 887,423 | 4.0\% | 2358,534 | 37.6\% | 1,282,856 | 11,509,094 | 17,785,854 | 8,276,770 | 64.7\% |
| 2525 | 100\% | 285,440 | 573,087 | 522,920 | \$28520 | 4,0\% | 2452,980 | 37.6\% | 1,342,256 | 11,245,495 | 19,104,639 | 6,155,154 | 66.0\% |
| 2025 | 100\% | 285,060 | 556,011 | 959,825 | 859,835 | 4.0\% | 2551,099 | 37.5\% | 1,356,473 | 12376,005 | 18,376,747 | 6,000,722 | 6.3\% |
| 2027 | 100\% | 308,735 | 619,851 | 995,230 | 998,230 | 4.0\% | 2,653,143 | 7.5\% | 1,381,321 | 12,856,723 | 18,606,787 | 5,810,054 | 68.9\% |
| 2028 | 400\% | 321,084 | 644,645 | 4,038,159 | 1,038,959 | 4.0\% | 2,759,258 | 37.5\% | 1,420, 886 | 13,385,086 | 18,985,565 | 5.579.479 | 706\% |
| 2029 | 100\% | 353,927 | 570,439 | 1,079,685 | 1,079,635 | 4.0\% | 2869,609 | 37.6\% | 1,400,334 | 13,954,033 | 19,258,979 | 5,304,946 | 725\% |
| 2230 | 100\% | 347,285 | 697248 | 1,122,873 | 1,122,873 | 4.0\% | 2,984,425 | 37.6\% | 7,550.5\% | 24,544,424 | 19,526,528 | $4.882,104$ | 745\% |
| 2081 | 100\% | 361,476 | 725,136 | 1,167,788 | 1,16,788 | 4,0\% | 3,106,602 | 37.5\% | 1,577,786 | 45,133,054 | 19,745,304 | 4,605,200 | 76.7\% |
| 2032 | 400\% | 356,623 | 754,144 | 1,244,499 | 1,214,499 | 4.0\% | 3,227,954 | 37.5\% | 1,583,376 | 15,805,350 | 19,977,512 | 4,172,153 | 79.1\% |
| 2033 | 100\% | 350,648 | 794,309 | 1,253,079 | 1260,079 | 4.0\% | 3,357,072 | 37.5\% | 1,608.249 | 16,552,488 | 20,225,858 | 3,674,570 | 81,4\% |
| 2034 | 400\% | 406,274 | 815,822 | 1,313,602 | 1,313,602 | 4.0\% | 3,491,355 | 37.6\% | 1,639,580 | 17,399,206 | 20,506,021 | 3,106,845 | 86.8\% |
| 2035 | 100\% | 422525 | 848.309 | 1,365,146 | 1,366,146 | 4.0\% | 3,631,009 | 37.6\% | 1,632669 | 18,316.664 | 20,772,553 | 2465.969 | 88.1\% |
| 2036 | 100\% | 439.428 | 882.242 | 1,420,792 | 1.420,782 | 4.0\% | 3,776,249 | 37.6\% | 1,656,628 | 18,362,688 | 27,098,477 | 9,735,739 | 91.ax |
| 2037 | 100\% | 457.003 | 917.531 | 1.477,024 | 1,477,234 | 4.0\% | 3,921,299 | 37.6\% | 1.655 | 20,516,723 | 21,034,284 | 917,531 | 95,7\% |
| 2038 | 100\% | 475,283 |  | 540,920 | 510,529 | -65.4\% | 4,084,391 | 125\% | 1,651,736 | 27,815,489 | 27,815,499 | - | 400.0\% |

[^1] Those deseriptions should be conxideted to be a part of his summary tepor
These resuls are for diacussion purponet only and shouid not be relice upon for puposer of making cench contributions to the Plan nor for my other purposes.

Town of Tiveron Police Department Pension Ptan
Praiction of Funded Starus and Recomonended Cantibutions

| Current For | ar of ${ }^{\text {aturia }}$ | tasion R | 25 year | morrizatio | rease ca | ion tex | minim | of 5700,000 Contrlaution |  |  |  |  |  |  | Candibulion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Begining | Payment Agninst | Employer Nommal Cos | Amorizatan | ARC | Contriburben | Inctasta | Faytall | an 8 \% of | Benefft Paymurnt | Assetis | Accrued Leality | Unfurded Labilky | Funded Ratlo | Rovarne <br> Forreat | 3n: \% or Rovanue |
| 2012 | 115\% | 171,429 | 377941 | 587,625 | 700,800 |  | 1,473,185 | 47.5\% | 742311 | 6,594,416 | 13,2z8,489 | 6,533,765 | 50,6\% | 10,471,009 | 9.73\% |
| 2013 | 122\% | 178,287 | 356.765 | 572505 | 700,000 | 0.0\% | 2.532124 | 4.7\% | 71,804 | 7,125,789 | 13,600,349 | 6,474,558 | 524\% | 42357.839 | 1.65\% |
| 2014 | 199\% | 185,478 | 353,809 | 587,673 | 700,000 | 0,0\% | 1,593,409 | 43.9\% | 805,64 | 7,525,667 | 13,944,211 | 6,418,544 | 54,0\% | 43,488,285 | 1.61\% |
| 2015 | 116\% | 192,835 | 371,801 | 604,260 | 700,000 | 0.0\% | 1,657,145 | 422\% | B65,427 | 7,918,618 | 14,284,859 | 6,366,239 | 55,4\% | 4,7323/3 | 1.56\% |
| 2015 | 113\% | 250,549 | 380,885 | -2,144 | 700,000 | 0.0\% | 1,723,431 | 40.6\% | 909,870 | 8,277,205 | 14,595,414 | 6,341,209 | 587\% | 45,958,000 | 1.52\% |
| 2017 | 109\% | 208,570 | 381276 | 641,235 | 700,000 | 0.0\% | 1,722,358 | 33,1\% | 856,452 | 8,564,894 | 14,889,964 | 6,275,070 | 5.9\% |  |  |
| 2018 | 106\% | 216,913 | 403,968 | 603.487 | 700,000 | 0.0\% | 1,854,063 | 37.6\% | 975,090 | 6,917,658 | 15,955,158 | 5,237,435 | 50,8\% |  |  |
| 2019 | 102\% | 225,589 | 476,042 | 688,402 | 700,000 | 0.0\% | 1,938,625 | 36.1\% | 1,000,320 | 9,201,641 | 15,437,859 | 6205216 | 50.83\% |  |  |
| 2020 | 100\% | 234,613 | 432,634 | 713,55s | 713,555 | 20\% | 2016,170 | 35,4\% | 4,062318 | 9,512525 | 15,724,537 | 6,1820032 | 60.7\% |  |  |
| 2027 | 100\% | 243,997 | 449,940 | 742,513 | 742.513 | 4.0\% | 2096,417 | 35.4\% | 1,157,373 | 9,524,957 | 15,976,813 | 6,151 $\mathrm{Sas}^{5}$ | 61.5\% |  |  |
| 2022 | 100\% | 253,75 | 457957 | 77213 | 772,273 | 4.0\% | 2180,800 | 35,4\% | 4,197995 | 10,047,245 | 15,148,285 | 6,101,050 | 62\% |  |  |
| 2023 | 100\% | 207,808 | 485,655 | 803,102 | 800,902 | 4.0\% | 2,267,918 | 35,4\% | 1,205,353 | 10,232,440 | 18,31027 | 6,027,43 | 60.0\% |  |  |
| 2024 | 100\% | 274.464 | 505,321 | 835,235 | 835,226 | 4,0\% | 2359,634 | 35.4\% | 1,252855 | 10,527,151 | 16,455,789 | 5,928,631 | 64,0\% |  |  |
| 2025 | 100\% | 285,443 | 526,366 | 858,635 | 868,035 | 4,0\% | 2452800 | 35.4\% | 1,342,255 | 10,792,23: | 16,594,306 | 5, [02005 | cesax |  |  |
| 2025 | 100\% | 296.080 | 547,420 | 903,380 | 933,380 | 4.0\% | 2551,099 | 35,4\% | 1,356,473 | 11,027.077 | 16,672,095 | 5,645,020 | 66,1\% |  |  |
| 2027 | 100\% | 308,735 | 569,317 | 939,516 | 939,518 | 40\% | 2653,143 | 35,4\% | 1381,321 | 11,208,403 | 15,752,834 | 5,451,431 | 6,4\% |  |  |
| 2028 | 100\% | 321,034 | 592050 | 977,098 | 977,096 | 4.0\% | 2759,289 | 35.4\% | 1.420,885 | 11588, 133 | 16,825,211 | 5,227,072 | 68.5\% |  |  |
| 2029 | 100\% | 333,827 | 615,74 | 1.016,160 | 1,016,180 | 4.0\% | 2,668,639 | 35.4\% | 1.480,334 | 11,917,558 | 16,676,969 | 4,859,431 | 70,5\% |  |  |
| 2030 | 100\% | 347,285 | 640,404 | 1,055,827 | 1,056,805 | 4.0\% | 2984,425 | 35.4\% | 1,560.525 | 12,235,821 | 16,880,535 | 4,647,713 | 725\% |  |  |
| 2031 | 900\% | 351,176 | 665,021 | 1,088,700 | 1,098,100 | 4.0\% | 3,100,802 | 35,4\% | 1,577,786 | 12584,013 | 16,621,833 | 4,287,82] | 745\% |  |  |
| 2032 | 100\% | 375,623 | 652685 | 1,143,054 | 1,143,054 | 4.0\% | 3227,054 | 35.4\% | 15833,376 | 1287,485 | 16,752814 | 3,675,326 | 78.5\% |  |  |
| 2033 | 500\% | 390,648 | 720,358 | 1,988,787 | 1,188,787 | 4.0\% | 3,357,072 | 35,4\% | 1,008,249 | 13,283,179 | 16,588,830 | 3,405,451 | $78.5 \%$ |  |  |
| 2034 | 100\% | 406,274 | 749,183 | 1,235,338 | 1,236,338 | 4.0\% | 3,41,355 | 35.4\% | 1,639580 | 13,737.251 | 16,510,290 | 2,673,039 | 827\% |  |  |
| 2035 | 100\% | 422535 | 779,150 | 1205,792 | 1235,782 | 4,0\% | 3,631,009 | 35,4\% | 1,632,509 | 14,238,238 | 16,540,758 | 2272,623 | 86.2\% |  |  |
| 2035 | 100\% | 439.426 | 810,316 | 1,335,204 | 1,337,24 | 4.0\% | 3.76,249 | 35,4\% | 1,656, 218 | 14,830,867 | 16,423,800 | 1,587913 | 90.3\% |  |  |
| 2037 | 100\% | 457,003 | 842,729 | 1,390,712 | 1,390,712 | 4.0\% | 3,527,259 | 35.44 | 1.658 .53 | 15,491,056 | 86,334,985 | 842789 | 94.8\% |  |  |
| 2035 | 100\% | 475,283 | . | 509,553 | 500,553 | -63,4\% | 4,0843991 | 125\% | 1,651,784 | 16,253,088 | 16,250,039 | - | 100.0\% |  |  |

The results prescated here are ESTIMATES, They are based on the data, assumptions, methods and plan provivions oullined in the Jaly 1,2012 atluarial repors uniess olherwise noter Those deseriptions should be considered to be a part of this summary nepor.


## Exhibit D - Actuarial Assumptions

Economic Assumptions
Interest Rate 7.5\% (net of administration expenses paid by the Trust)
Salary Increases 3.5\%
Demographic Assumptions
Mortality RP 2000 Mortality Table for males and females.
Disability Sample disability rates are as follows:
Annual Rates of Disability
Males Females
.03\% .....  $05 \%$Age25
30 .....  04 .....  04 .....  06 .....  06
40 .....  07 .....  07 .....  10 .....  10
50 .18 .18 ..... 26 ..... 26
55 ..... 36 ..... 36 .....  49 .....  49
60 .90 .90 ..... 1.21 ..... 1.21
Turnover
Retirement
Marital Status
COLA adjustments
Asset Value

## None Assumed

The rate is $50 \%$ at 20 years of Service. If a Member has at least 20 Years of service, the rate is $10 \%$ through age 55 and $100 \%$ for age 55 and older.
$80 \%$ of participants are assumed to be married with males 3 years older than their female spouses.
$1.3 \%$ increase each year.
Assets are valued at market plus receivables.

## Exhibit E-Plan Provisions

There are no changes to the Plan provisions anticipated in the Funding Improvement Plan at this time

Effective Date
July 1, 1978

## Eligibility

All employees are eligible after age 21 and 12 months of service.

## Monthly Compensation

Compensation includes regular pay as well as Bonus and Longevity pay and State Education Incentive Compensation.

## Credited Service

Service measured from the date of employment.

## Normal Retirement Benefit

For retirements on or after June 1, 2000, a monthly benefit equal to $2.5 \%$ of Average Monthly Compensation multiplied by Credited Service for the first 20 years of Service, Plus $2 \%$ of Average Monthly Compensation multiplied by Credited Service in excess of 20 years subject to a maximum benefit of $75 \%$ of Average Compensation.

## Normal Form

The Normal Form of payment is a Life Annuity.
Normal Retirement Date
A Member may retire on the earlier of his $55^{\text {th }}$ birthday or upon completion of 20 years of Credited Service. Members hired after July 1, 2012 will need 25 years of Credited Service.

## Disability Retirement

If the disability was duty-related, the benefit is $662 / 3 \%$ of Final Compensation. The non-duty-related Disability Benefit is $50 \%$ of Final Compensation.

## Pre-Retirement Death Benefit

The Beneficiary of a Participant who dies shall receive a benefit of $\$ 400$ for each year of service, subject to a minimum of $\$ 2000$ and a maximum of $\$ 8,000$. After retirement, the benefit is reduced by $25 \%$ per year but not less than $\$ 2,000$.

Vesting $\quad 100 \%$ after 10 years.

## Pre-Retirement Death Benefit

$50 \%$ of Accrued Benefit at time of death payable to spouse until death or remarriage with additional benefits payable to surviving children under age 18 if no spouse survives.

## Employee Contributions

$10 \%$ of compensation

## Post-Retirement COLA

Base Benefit increased $1 \%$ of the compensation each year for the position from which they retired. The increases are cumulative, not compounded.


[^0]:    Traci M. Christian, EA, MAAA
    Enrollment Number 11-06694

[^1]:    
    
    

