

January 14, 2015

Mr. Dave Williams, Administrator Sunrise Police Officers' Pension Board 13790 N. W. 4th Street, Suite 105 Sunrise, Florida 33325

Re:

City of Sunrise Police Officers' Retirement System GASB No. 67 Disclosure Information

Dear Dave:

As requested, we have prepared the actuarial disclosure information required under Governmental Accounting Standards Board (GASB) Statement Number 67 for the fiscal year ending September 30, 2014. Enclosed are the following exhibits:

- Calculation of the single discount rate (for auditor demonstrations) based on projections of benefit payments, expected contributions and investment returns
- Statement of changes in Net Pension Liability and Ratios, using the single discount rate as determined above
- Schedule of contributions
- Sensitivity analysis

The actuarial valuation of the liabilities has been determined as of the beginning of the year, October 1, 2013, and "rolled forward" to the measurement date, September 30, 2014. Using the beginning of the year valuation of liabilities allows for more timely reporting at the end of the year. If significant changes occur during the year, such as benefit changes or changes in assumptions or methods, these may need to be reflected in the process.

The enclosed exhibits were based upon draft financial information as of September 30, 2014, which was furnished by the Plan Administrator and auditor. If any of this information changes during the auditing process, then these exhibits will need to be revised.

Please note that there are other items not listed above that will be required in the in the Plan's financial statements and/or the City's Comprehensive Annual Financial Report (CAFR) to fully comply with GASB No. 67 standards. This additional information will need to be provided by the Plans' investment consultants, accountants or other financial statement preparers.

Required Disclosures

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by them. This report may be provided to parties other than the Retirement System only in its entirety and only with their permission. This report should not be relied on for any purpose other than the purpose described above.

Mr. Dave Williams January 14, 2015 Page 2

The calculations in this report are based on financial information as of September 30, 2014 as well as information furnished by the Plan Administrator for the October 1, 2013 Actuarial Valuation concerning plan provisions, active members, terminated members, retirees and beneficiaries. We reviewed this information for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

They are also based on the assumptions, methods, and plan provisions outlined in this report. 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. If you have reason to believe that the assumptions that were used are unreasonable, that the plan provisions are incorrectly described, that important plan provisions relevant to this proposal are not described, or that conditions have changed since the calculations were made, you should contact the author of the report prior to relying on information in the report.

The undersigned actuaries are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The undersigned actuaries are independent of the plan sponsor.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Plan as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

We welcome your questions and comments.

Sincerely yours,

Jeffrey Amrose, EA, MAAA

Senior Consultant & Actuary

JA/tnr

Enclosures

Consultant & Actuary

Trisha Amrose, EA, MAAA

SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS GASB Statement No. 67

| Fiscal year ending September 30, | 2014 |
|--|--------------------|
| Total pension liability | |
| Service Cost | \$ 3,784,863 |
| Interest | 12,056,017 |
| Benefit Changes | - |
| Difference between actual & expected experience | (58,354) |
| Assumption Changes | - |
| Benefit Payments | (8,760,460) |
| Refunds | (40,078) |
| Net Change in Total Pension Liability | 6,981,988 |
| Total Pension Liability - Beginning | 151,315,619 |
| Total Pension Liability - Ending (a) | \$ 158,297,607 |
| Plan Fiduciary Net Position | |
| Contributions - Employer | \$ 7,472,477 |
| Contributions - Non-Employer Contributing Entity | 620,714 |
| Contributions - Member | 1,293,252 |
| Net Investment Income | 8,705,647 |
| Benefit Payments | (8,760,460) |
| Refunds | (40,078) |
| Administrative Expense | (222,848) |
| Other | - |
| Net Change in Plan Fiduciary Net Position | 9,068,704 |
| Plan Fiduciary Net Position - Beginning | 96,495,201 |
| Plan Fiduciary Net Position - Ending (b) | \$ 105,563,905 |
| Net Pension Liability - Ending (a) - (b) | 52,733,702 |
| Plan Fiduciary Net Position as a Percentage | |
| of Total Pension Liability | 66.69 % |
| Covered Employee Payroll | \$ 13,142,805 * |
| Net Pension Liability as a Percentage | |
| of Covered Employee Payroll | 401.24 % |

^{*} Actual total covered payroll for the fiscal year ending September 30, 2014.

SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

| | Total | | | Plan Net Position | Net Pension Liability | | |
|---------------|---------------|---------------|---------------|-------------------|-----------------------|-----------------|--|
| FY Ending | Pension | Plan Net | Net Pension | as a % of Total | Covered | as a % of | |
| September 30, | Liability | Position | Liability | Pension Liability | Payroll | Covered Payroll | |
| | | | | | | | |
| 2014 | \$158,297,607 | \$105,563,905 | \$ 52,733,702 | 66.69% | \$ 13,142,805 | * 401.24% | |

st Actual total covered payroll for the fiscal year ending September 30, 2014.

SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

| FY Ending September 30, | Actuarially Determined Contribution | Actual Contribution | Contribution Deficiency (Excess) | Covered Payroll* | Actual Contribution as a % of Covered Payroll |
|-------------------------|-------------------------------------|---------------------|----------------------------------|------------------|---|
| 2005 | \$ 1,694,795 | \$ 1,694,795 | \$ - | \$ 10,894,352 | 15.56% |
| 2006 | 2,017,275 | 2,017,275 | - | 11,323,389 | 17.82% |
| 2007 | 3,483,437 | 3,530,143 | (46,706) | 11,686,231 | 30.21% |
| 2008 | 4,227,050 | 4,180,344 | 46,706 | 12,497,032 | 33.45% |
| 2009 | 4,547,620 | 4,547,620 | - | 13,475,617 | 33.75% |
| 2010 | 5,705,361 | 5,705,361 | - | 13,936,365 | 40.94% |
| 2011 | 6,462,794 | 6,462,794 | - | 13,027,405 | 49.61% |
| 2012 | 6,542,571 | 6,542,571 | - | 13,521,139 | 48.39% |
| 2013 | 7,431,759 | 7,431,759 | - | 13,359,510 | 55.63% |
| 2014 | 8,093,191 | 8,093,191 | - | 13,292,908 | 60.88% |

^{*} Actual total covered payroll for the fiscal year ending September 30, 2014; expected total covered payroll for all other years.

NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: October 1, 2013

Notes Actuarially determined contribution rates are calculated as of October 1,

which is two year(s) prior to the end of the fiscal year in which

contributions are reported.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percent of Pay, Closed

Remaining Amortization Period 20 years

Asset Valuation Method 5-year smoothed market

Inflation 3.0%

Salary Increases 5.2% to 8.5% depending on age, including inflation

Investment Rate of Return 8.00%

Retirement Age Experience-based table of rates that are specific to the type of eligibility

condition

Mortality RP-2000 Combined Healthy Participant Mortality Table for males and

females with mortality improvement projected to all future years using

Scale AA

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2013 Actuarial

Valuation Report

SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 8.00% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 8.00%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments (8.00%) was applied to all periods of projected benefit payments to determine the total pension liability.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 8.00%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption

| | | Cu | rrent Single Discount | |
|-------|-------------|----|-----------------------|------------------|
| | 1% Decrease | | Rate Assumption | 1% Increase |
| 7.00% | | | 8.00% | 9.00% |
| \$ | 73,876,421 | \$ | 52,733,702 | \$ 35,419,367 |

GASB 67 – Projection of Contributions Single Discount Rate Determination: 50-Year

| | Payroll for Current | | ntributions om Current | Ser | vice Cost and Expense | | UAL | | Total |
|----------|------------------------|-----|---------------------------|-----|--------------------------|---------------|-----------|-----------------|------------|
| Year | Employees | F | Employees | Co | ontributions | Contributions | | Contributions | |
| | (a) | (b) | | (c) | | (d) | | (e)=(b)+(c)+(d) | |
| 0 | \$ 12,518,546 | | | | | | | | |
| 1 | 13,292,908 | \$ | 1,308,022 | \$ | 2,860,454 | \$ | 5,565,709 | \$ | 9,734,185 |
| 2 | 13,549,381 | | 1,333,259 | | 2,915,647 | | 5,714,290 | | 9,963,196 |
| 3 | 13,766,662 | | 1,354,640 | | 2,962,163 | | 5,866,861 | | 10,183,663 |
| 4 | 13,814,044 | | 1,359,302 | | 2,973,614 | | 6,023,506 | | 10,356,422 |
| 5 | 13,816,652 | | 1,359,559 | | 2,967,941 | | 6,184,334 | | 10,511,833 |
| 6 | 13,687,924 | | 1,346,892 | | 2,937,364 | | 6,349,456 | | 10,633,712 |
| 7 | 13,472,798 | | 1,325,723 | | 2,889,054 | | 4,945,721 | | 9,160,499 |
| 8 | 12,921,405 | | 1,271,466 | | 2,768,347 | | 5,077,772 | | 9,117,585 |
| 9 | 12,295,963 | | 1,209,923 | | 2,631,145 | | 5,213,349 | | 9,054,417 |
| 10 | 11,378,362 | | 1,119,631 | | 2,429,789 | | 5,352,545 | | 8,901,965 |
| 11 | 10,135,298 | | 997,313 | | 2,160,905 | | 5,495,458 | | 8,653,677 |
| 12 | 9,437,855 | | 928,685 | | 2,009,274 | | 5,642,187 | | 8,580,146 |
| 13 | 8,238,725 | | 810,691 | | 1,751,298 | | 5,792,833 | | 8,354,822 |
| 14 | 6,707,900 | | 660,057 | | 1,422,191 | | 5,947,502 | | 8,029,750 |
| 15 | 5,773,235 | | 568,086 | | 1,220,678 | | 6,106,300 | | 7,895,064 |
| 16 | 5,056,854 | | 497,594 | | 1,066,658 | | 6,269,338 | | 7,833,591 |
| 17 | 4,642,713 | | 456,843 | | 975,873 | | 2,194,993 | | 3,627,709 |
| 18 | 3,980,845 | | 391,715 | | 836,548 | | 1,900,042 | | 3,128,305 |
| 19 | 3,207,190 | | 315,587 | | 670,301 | | 1,089,787 | | 2,075,675 |
| 20 | 2,415,370 | | 237,672 | | 501,423 | | 682,509 | | 1,421,604 |
| 21 | 1,920,989 | | 189,025 | | 397,172 | | 1,519,324 | | 2,105,521 |
| 22 | 1,272,182 | | 125,183 | | 264,787 | | 1,559,890 | | 1,949,859 |
| 23 | 1,065,532 | | 104,848 | | 221,998 | | 327,506 | | 654,353 |
| 24 | 909,924 | | 89,537 | | 187,842 | | 219,843 | | 497,221 |
| 25 | 556,055 | | 54,716 | | 114,719 | | 225,713 | | 395,147 |
| 26 | 69,664 | | 6,855 | | 14,474 | | (0) | | 21,329 |
| 27 | - | | - | | | | (0) | | (0) |
| 28 | _ | | _ | | _ | | (0) | | (0) |
| 29 | _ | | _ | | _ | | (0) | | (0) |
| 30 | _ | | _ | | _ | | (0) | | (0) |
| 31 | _ | | _ | | _ | | (0) | | (0) |
| 32 | _ | | _ | | _ | | - | | - |
| 33 | _ | | _ | | | | _ | | |
| 34 | _ | | _ | | _ | | _ | | _ |
| 35 | _ | | _ | | | | _ | | _ |
| 36 | _ | | _ | | _ | | _ | | _ |
| 37 | _ | | _ | | | | _ | | _ |
| 38 | | | | | | | | | |
| 39 | | | _ | | | | _ | | _ |
| 40 | | | | | | | | | |
| 40 | - | | - | | - | | - | | - |
| 42 | - | | - | | - | | - | | - |
| 42 | - | | - | | - | | - | | - |
| 43 44 | - | | - | | - | | - | | - |
| | - | | - | | - | | - | | - |
| 45 | - | | - | | - | | - | | - |
| 46 | - | | - | | - | | - | | - |
| 47 | - | | - | | - | | - | | - |
| 48 | - | | - | | - | | - | | - |
| 49 | - | | - | | - | | - | | - |
| 50 | - | | - | | - | | - | | - |

GASB 67 Single Discount Rate Determination: 100-Year Projection of Cash Flows

| | Projected Beginning | Projected Total | Dre | ojected Benefit | | Projected dministrative | Projected Investment Earnings at | Projected Ending Plan |
|------|---------------------|-----------------|-----|-----------------|----|----------------------------|--|-------------------------|
| Year | Plan Net Position | Contributions | rre | Payments | A | Expenses | 8.00% | Net Position |
| | (a) | (b) | | (c) | | (d) | (e) | (f)=(a)+(b)-(c)-(d)+(e) |
| 1 | \$ 87,604,883 | \$ 9,734,185 | \$ | 6,675,892 | \$ | 235,070 | \$ 7,119,147 | \$ 97,547,254 |
| 2 | 97,547,254 | 9,963,196 | | 6,845,175 | | 239,605 | 7,916,702 | 108,342,372 |
| 3 | 108,342,372 | 10,183,663 | | 7,175,679 | | 243,448 | 8,775,844 | 119,882,752 |
| 4 | 119,882,752 | 10,356,422 | | 7,505,659 | | 244,286 | 9,692,874 | 132,182,104 |
| 5 | 132,182,104 | 10,511,833 | | 7,978,563 | | 244,331 | 10,664,364 | 145,135,406 |
| 6 | 145,135,406 | 10,633,712 | | 8,524,551 | | 242,055 | 11,684,080 | 158,686,591 |
| 7 | 158,686,591 | 9,160,499 | | 9,331,637 | | 238,251 | 12,678,867 | 170,956,069 |
| 8 | 170,956,069 | 9,117,585 | | 10,169,094 | | 228,500 | 13,626,270 | 183,302,330 |
| 9 | 183,302,330 | 9,054,417 | | 11,201,026 | | 217,440 | 14,571,444 | 195,509,724 |
| 10 | 195,509,724 | 8,901,965 | | 12,482,714 | | 201,214 | 15,492,410 | 207,220,171 |
| 11 | 207,220,171 | 8,653,677 | | 13,354,934 | | 179,231 | 16,386,150 | 218,725,832 |
| 12 | 218,725,832 | 8,580,146 | | 14,595,872 | | 166,897 | 17,255,519 | 229,798,728 |
| 13 | 229,798,728 | 8,354,822 | | 16,060,305 | | 145,693 | 18,075,893 | 240,023,446 |
| 14 | 240,023,446 | 8,029,750 | | 17,070,379 | | 118,622 | 18,842,554 | 249,706,749 |
| 15 | 249,706,749 | 7,895,064 | | 17,864,753 | | 102,093 | 19,581,419 | 259,216,387 |
| 16 | 259,216,387 | 7,833,591 | | 18,507,902 | | 89,425 | 20,315,044 | 268,767,695 |
| 17 | 268,767,695 | 3,627,709 | | 19,319,584 | | 82,101 | 20,882,595 | 273,876,313 |
| 18 | 273,876,313 | 3,128,305 | | 20,229,215 | | 70,396 | 21,236,466 | 277,941,474 |
| 19 | 277,941,474 | 2,075,675 | | 21,130,601 | | 56,715 | 21,485,559 | 280,315,392 |
| 20 | 280,315,392 | 1,421,604 | | 21,770,478 | | 42,713 | 21,625,259 | 281,549,064 |
| 21 | 281,549,064 | 2,105,521 | | 22,558,106 | | 33,970 | 21,720,228 | 282,782,737 |
| 22 | 282,782,737 | 1,949,859 | | 22,945,598 | | 22,497 | 21,798,063 | 283,562,564 |
| 23 | 283,562,564 | 654,353 | | 23,298,601 | | 18,842 | 21,795,921 | 282,695,395 |
| 24 | 282,695,395 | 497,221 | | 23,806,532 | | 16,091 | 21,700,565 | 281,070,557 |
| 25 | 281,070,557 | 395,147 | | 24,395,743 | | 9,833 | 21,543,704 | 278,603,832 |
| 26 | 278,603,832 | 21,329 | | 24,611,552 | | 1,231 | 21,323,572 | 275,335,949 |
| 27 | 275,335,949 | (0) | | 24,797,921 | | _ | 21,054,041 | 271,592,069 |
| 28 | 271,592,069 | (0) | | 24,975,568 | | - | 20,747,562 | 267,364,062 |
| 29 | 267,364,062 | (0) | | 25,093,941 | | - | 20,404,678 | 262,674,799 |
| 30 | 262,674,799 | (0) | | 25,203,724 | | - | 20,025,230 | 257,496,304 |
| 31 | 257,496,304 | (0) | | 25,264,954 | | _ | 19,608,548 | 251,839,899 |
| 32 | 251,839,899 | - ' | | 25,315,944 | | - | 19,154,035 | 245,677,990 |
| 33 | 245,677,990 | _ | | 25,309,949 | | _ | 18,661,318 | 239,029,359 |
| 34 | 239,029,359 | - | | 25,263,109 | | - | 18,131,265 | 231,897,514 |
| 35 | 231,897,514 | - | | 25,161,337 | | - | 17,564,710 | 224,300,887 |
| 36 | 224,300,887 | _ | | 25,010,774 | | _ | 16,962,886 | 216,253,000 |
| 37 | 216,253,000 | - | | 24,797,899 | | - | 16,327,406 | 207,782,507 |
| 38 | 207,782,507 | - | | 24,524,401 | | _ | 15,660,496 | 198,918,603 |
| 39 | 198,918,603 | - | | 24,178,093 | | - | 14,964,970 | 189,705,480 |
| 40 | 189,705,480 | - | | 23,751,835 | | - | 14,244,642 | 180,198,287 |
| 41 | 180,198,287 | - | | 23,253,322 | | _ | 13,503,624 | 170,448,588 |
| 42 | 170,448,588 | _ | | 22,674,515 | | _ | 12,746,355 | 160,520,428 |
| 43 | 160,520,428 | - | | 22,016,267 | | - | 11,977,925 | 150,482,087 |
| 44 | 150,482,087 | - | | 21,280,745 | | - | 11,203,713 | 140,405,055 |
| 45 | 140,405,055 | - | | 20,471,300 | | - | 10,429,305 | 130,363,060 |
| 46 | 130,363,060 | - | | 19,591,124 | | - | 9,660,476 | 120,432,412 |
| 47 | 120,432,412 | - | | 18,649,372 | | - | 8,902,969 | 110,686,010 |
| 48 | 110,686,010 | - | | 17,652,964 | | - | 8,162,346 | 101,195,392 |
| 49 | 101,195,392 | - | | 16,615,654 | | - | 7,443,791 | 92,023,529 |
| 50 | 92,023,529 | - | | 15,550,612 | | _ | 6,751,824 | 83,224,741 |
| | -,,-=> | | | - , , | | | -,, | ,,1 |

GASB 67 Single Discount Rate Determination: 100-Year Projection of Cash Flows (cont'd)

| 51 | 83,224,741 | - | 14,470,319 | - | 6,090,302 | 74,844,724 |
|-----|------------|---|------------|---|-----------|------------|
| 52 | 74,844,724 | - | 13,389,135 | - | 5,462,316 | 66,917,904 |
| 53 | 66,917,904 | - | 12,315,005 | - | 4,870,309 | 59,473,208 |
| 54 | 59,473,208 | - | 11,257,517 | - | 4,316,219 | 52,531,910 |
| 55 | 52,531,910 | - | 10,229,126 | - | 3,801,259 | 46,104,044 |
| 56 | 46,104,044 | - | 9,233,972 | - | 3,326,070 | 40,196,142 |
| 57 | 40,196,142 | - | 8,282,797 | - | 2,890,753 | 34,804,099 |
| 58 | 34,804,099 | - | 7,381,691 | - | 2,494,741 | 29,917,148 |
| 59 | 29,917,148 | - | 6,531,797 | - | 2,137,126 | 25,522,477 |
| 60 | 25,522,477 | - | 5,739,338 | - | 1,816,641 | 21,599,780 |
| 61 | 21,599,780 | - | 5,006,768 | - | 1,531,564 | 18,124,576 |
| 62 | 18,124,576 | - | 4,331,809 | - | 1,280,027 | 15,072,794 |
| 63 | 15,072,794 | - | 3,714,582 | - | 1,060,099 | 12,418,311 |
| 64 | 12,418,311 | - | 3,156,472 | - | 869,635 | 10,131,474 |
| 65 | 10,131,474 | - | 2,657,059 | - | 706,280 | 8,180,695 |
| 66 | 8,180,695 | - | 2,213,170 | - | 567,632 | 6,535,157 |
| 67 | 6,535,157 | - | 1,822,542 | - | 451,313 | 5,163,928 |
| 68 | 5,163,928 | - | 1,484,869 | - | 354,862 | 4,033,922 |
| 69 | 4,033,922 | - | 1,196,705 | - | 275,766 | 3,112,983 |
| 70 | 3,112,983 | - | 951,250 | - | 211,721 | 2,373,453 |
| 71 | 2,373,453 | - | 746,181 | - | 160,603 | 1,787,875 |
| 72 | 1,787,875 | - | 578,286 | - | 120,344 | 1,329,932 |
| 73 | 1,329,932 | - | 441,986 | - | 89,055 | 977,002 |
| 74 | 977,002 | - | 332,584 | - | 65,113 | 709,531 |
| 75 | 709,531 | - | 247,105 | - | 47,068 | 509,494 |
| 76 | 509,494 | - | 181,480 | - | 33,640 | 361,654 |
| 77 | 361,654 | - | 131,326 | - | 23,780 | 254,108 |
| 78 | 254,108 | - | 93,815 | - | 16,648 | 176,941 |
| 79 | 176,941 | - | 66,382 | - | 11,551 | 122,110 |
| 80 | 122,110 | - | 46,541 | - | 7,943 | 83,512 |
| 81 | 83,512 | - | 32,232 | - | 5,417 | 56,697 |
| 82 | 56,697 | - | 22,158 | - | 3,666 | 38,205 |
| 83 | 38,205 | - | 15,125 | - | 2,463 | 25,543 |
| 84 | 25,543 | - | 10,263 | - | 1,641 | 16,921 |
| 85 | 16,921 | - | 6,915 | - | 1,082 | 11,089 |
| 86 | 11,089 | - | 4,602 | - | 707 | 7,193 |
| 87 | 7,193 | - | 3,040 | - | 456 | 4,610 |
| 88 | 4,610 | - | 1,975 | - | 291 | 2,925 |
| 89 | 2,925 | - | 1,276 | - | 184 | 1,834 |
| 90 | 1,834 | - | 813 | - | 115 | 1,136 |
| 91 | 1,136 | - | 520 | - | 70 | 686 |
| 92 | 686 | - | 315 | - | 43 | 413 |
| 93 | 413 | - | 200 | - | 25 | 238 |
| 94 | 238 | - | 124 | - | 14 | 128 |
| 95 | 128 | - | 67 | - | 8 | 69 |
| 96 | 69 | - | 41 | - | 4 | 32 |
| 97 | 32 | - | 17 | - | 2 | 17 |
| 98 | 17 | - | 10 | - | 1 | 8 |
| 99 | 8 | - | 5 | - | 0 | 3 |
| 100 | 3 | - | 3 | - | 0 | - |
| | | | | | | |

GASB 67 Single Discount Rate Determination: 100-Year Projection to Determine Cross-over Date

| Year | Projected Beginning Plan Net Position | Projected Benefit Payments | Funded Portion of Benefit Payments | Unfunded Portion of Benefit Payments | Present Value of Funded Benefit Payments using Expected Return Rate (v) | Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf) | Present Value of Benefit Payments using Single Discount Rate (sdr) |
|------|---|-------------------------------|--|--|---|---|--|
| (a) | (b) | (c) | (d) | (e) | (f)=(d)*v^((a)5) | (g)=(e)*vf ^((a)5) | (h)=((c)/(1+sdr)^(a5) |
| 1 | \$ 87,604,883 | \$ 6,675,892 | \$ 6,675,892 | \$ - | \$ 6,423,880 | \$ - | \$ 6,423,880 |
| 2 | 97,547,254 | 6,845,175 | 6,845,175 | - | 6,098,863 | - | 6,098,863 |
| 3 | 108,342,372 | 7,175,679 | 7,175,679 | - | 5,919,753 | - | 5,919,753 |
| 4 | 119,882,752 | 7,505,659 | 7,505,659 | - | 5,733,314 | - | 5,733,314 |
| 5 | 132,182,104 | 7,978,563 | 7,978,563 | - | 5,643,101 | - | 5,643,101 |
| 6 | 145,135,406 | 8,524,551 | 8,524,551 | - | 5,582,656 | - | 5,582,656 |
| 7 | 158,686,591 | 9,331,637 | 9,331,637 | - | 5,658,528 | - | 5,658,528 |
| 8 | 170,956,069 | 10,169,094 | 10,169,094 | - | 5,709,579 | - | 5,709,579 |
| 9 | 183,302,330 | 11,201,026 | 11,201,026 | - | 5,823,122 | - | 5,823,122 |
| 10 | 195,509,724 | 12,482,714 | 12,482,714 | - | 6,008,739 | - | 6,008,739 |
| 11 | 207,220,171 | 13,354,934 | 13,354,934 | - | 5,952,403 | - | 5,952,403 |
| 12 | 218,725,832 | 14,595,872 | 14,595,872 | - | 6,023,610 | - | 6,023,610 |
| 13 | 229,798,728 | 16,060,305 | 16,060,305 | - | 6,137,010 | - | 6,137,010 |
| 14 | 240,023,446 | 17,070,379 | 17,070,379 | - | 6,039,799 | - | 6,039,799 |
| 15 | 249,706,749 | 17,864,753 | 17,864,753 | - | 5,852,650 | - | 5,852,650 |
| 16 | 259,216,387 | 18,507,902 | 18,507,902 | - | 5,614,214 | - | 5,614,214 |
| 17 | 268,767,695 | 19,319,584 | 19,319,584 | - | 5,426,325 | - | 5,426,325 |
| 18 | 273,876,313 | 20,229,215 | 20,229,215 | - | 5,260,939 | - | 5,260,939 |
| 19 | 277,941,474 | 21,130,601 | 21,130,601 | - | 5,088,296 | - | 5,088,296 |
| 20 | 280,315,392 | 21,770,478 | 21,770,478 | - | 4,854,055 | - | 4,854,055 |
| 21 | 281,549,064 | 22,558,106 | 22,558,106 | - | 4,657,101 | - | 4,657,101 |
| 22 | 282,782,737 | 22,945,598 | 22,945,598 | - | 4,386,202 | - | 4,386,202 |
| 23 | 283,562,564 | 23,298,601 | 23,298,601 | - | 4,123,779 | - | 4,123,779 |
| 24 | 282,695,395 | 23,806,532 | 23,806,532 | - | 3,901,556 | - | 3,901,556 |
| 25 | 281,070,557 | 24,395,743 | 24,395,743 | - | 3,701,963 | - | 3,701,963 |
| 26 | 278,603,832 | 24,611,552 | 24,611,552 | - | 3,458,066 | - | 3,458,066 |
| 27 | 275,335,949 | 24,797,921 | 24,797,921 | - | 3,226,159 | - | 3,226,159 |
| 28 | 271,592,069 | 24,975,568 | 24,975,568 | - | 3,008,584 | - | 3,008,584 |
| 29 | 267,364,062 | 25,093,941 | 25,093,941 | - | 2,798,929 | - | 2,798,929 |
| 30 | 262,674,799 | 25,203,724 | 25,203,724 | - | 2,602,939 | - | 2,602,939 |
| 31 | 257,496,304 | 25,264,954 | 25,264,954 | - | 2,415,983 | - | 2,415,983 |
| 32 | 251,839,899 | 25,315,944 | 25,315,944 | - | 2,241,537 | - | 2,241,537 |
| 33 | 245,677,990 | 25,309,949 | 25,309,949 | - | 2,075,005 | - | 2,075,005 |
| 34 | 239,029,359 | 25,263,109 | 25,263,109 | - | 1,917,746 | - | 1,917,746 |
| 35 | 231,897,514 | 25,161,337 | 25,161,337 | - | 1,768,537 | - | 1,768,537 |
| 36 | 224,300,887 | 25,010,774 | 25,010,774 | - | 1,627,735 | - | 1,627,735 |
| 37 | 216,253,000 | 24,797,899 | 24,797,899 | - | 1,494,334 | - | 1,494,334 |
| 38 | 207,782,507 | 24,524,401 | 24,524,401 | - | 1,368,383 | - | 1,368,383 |
| 39 | 198,918,603 | 24,178,093 | 24,178,093 | - | 1,249,129 | - | 1,249,129 |
| 40 | 189,705,480 | 23,751,835 | 23,751,835 | - | 1,136,211 | - | 1,136,211 |
| 41 | 180,198,287 | 23,253,322 | 23,253,322 | - | 1,029,966 | - | 1,029,966 |
| 42 | 170,448,588 | 22,674,515 | 22,674,515 | - | 929,934 | - | 929,934 |
| 43 | 160,520,428 | 22,016,267 | 22,016,267 | - | 836,053 | - | 836,053 |
| 44 | 150,482,087 | 21,280,745 | 21,280,745 | - | 748,262 | - | 748,262 |
| 45 | 140,405,055 | 20,471,300 | 20,471,300 | - | 666,482 | - | 666,482 |
| 46 | 130,363,060 | 19,591,124 | 19,591,124 | - | 590,580 | - | 590,580 |
| 47 | 120,432,412 | 18,649,372 | 18,649,372 | - | 520,547 | - | 520,547 |
| 48 | 110,686,010 | 17,652,964 | 17,652,964 | - | 456,236 | - | 456,236 |
| 49 | 101,195,392 | 16,615,654 | 16,615,654 | - | 397,617 | - | 397,617 |
| 50 | 92,023,529 | 15,550,612 | 15,550,612 | - | 344,565 | - | 344,565 |
| | | | | | | | |

GASB 67 Single Discount Rate Determination: 100-Year Projection to Determine Cross-over Date (cont'd)

| Year | Projected Beginning Plan Net Position | Projected Benefit Payments | Funded Portion of Benefit Payments | Unfunded Portion of Benefit Payments | Present Value of Funded Benefit Payments using Expected Return Rate (v) | Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf) | Present Value of Benefit Payments using Single Discount Rate (sdr) |
|------|---|----------------------------|--|--|---|---|--|
| (a) | (b) | (c) | (d) | (e) | (f)=(d)*v^((a)5) | (g)=(e)*vf ^((a)5) | (h)=((c)/(1+sdr)^(a5) |
| 51 | \$ 83,224,741 | \$ 14,470,319 | \$ 14,470,319 | * * | \$ 296,878 | \$ - | \$ 296,878 |
| 52 | 74,844,724 | 13,389,135 | 13,389,135 | - | 254,348 | - | 254,348 |
| 53 | 66,917,904 | 12,315,005 | 12,315,005 | - | 216,614 | - | 216,614 |
| 54 | 59,473,208 | 11,257,517 | 11,257,517 | _ | 183,346 | - | 183,346 |
| 55 | 52,531,910 | 10,229,126 | 10,229,126 | _ | 154,257 | - | 154,257 |
| 56 | 46,104,044 | 9,233,972 | 9,233,972 | _ | 128,935 | - | 128,935 |
| 57 | 40,196,142 | 8,282,797 | 8,282,797 | _ | 107,087 | _ | 107,087 |
| 58 | 34,804,099 | 7,381,691 | 7,381,691 | _ | 88,367 | - | 88,367 |
| 59 | 29,917,148 | 6,531,797 | 6,531,797 | _ | 72,401 | _ | 72,401 |
| 60 | 25,522,477 | 5,739,338 | 5,739,338 | _ | 58,904 | _ | 58,904 |
| 61 | 21,599,780 | 5,006,768 | 5,006,768 | _ | 47,580 | _ | 47,580 |
| 62 | 18,124,576 | 4,331,809 | 4,331,809 | _ | 38,116 | _ | 38,116 |
| 63 | 15,072,794 | 3,714,582 | 3,714,582 | _ | 30,264 | _ | 30,264 |
| 64 | 12,418,311 | 3,156,472 | 3,156,472 | _ | 23,812 | _ | 23,812 |
| 65 | 10,131,474 | 2,657,059 | 2,657,059 | - | 18,560 | - | 18,560 |
| | 8,180,695 | | 2,213,170 | - | 14,314 | - | 14,314 |
| 66 | | 2,213,170 | | - | | - | |
| 67 | 6,535,157 | 1,822,542 | 1,822,542 | - | 10,914 | - | 10,914 |
| 68 | 5,163,928 | 1,484,869 | 1,484,869 | - | 8,234 | - | 8,234 |
| 69 | 4,033,922 | 1,196,705 | 1,196,705 | - | 6,144 | - | 6,144 |
| 70 | 3,112,983 | 951,250 | 951,250 | - | 4,522 | - | 4,522 |
| 71 | 2,373,453 | 746,181 | 746,181 | - | 3,285 | - | 3,285 |
| 72 | 1,787,875 | 578,286 | 578,286 | - | 2,357 | - | 2,357 |
| 73 | 1,329,932 | 441,986 | 441,986 | - | 1,668 | - | 1,668 |
| 74 | 977,002 | 332,584 | 332,584 | - | 1,162 | - | 1,162 |
| 75 | 709,531 | 247,105 | 247,105 | - | 799 | - | 799 |
| 76 | 509,494 | 181,480 | 181,480 | - | 544 | - | 544 |
| 77 | 361,654 | 131,326 | 131,326 | - | 364 | - | 364 |
| 78 | 254,108 | 93,815 | 93,815 | - | 241 | - | 241 |
| 79 | 176,941 | 66,382 | 66,382 | - | 158 | - | 158 |
| 80 | 122,110 | 46,541 | 46,541 | - | 102 | - | 102 |
| 81 | 83,512 | 32,232 | 32,232 | - | 66 | - | 66 |
| 82 | 56,697 | 22,158 | 22,158 | - | 42 | - | 42 |
| 83 | 38,205 | 15,125 | 15,125 | - | 26 | - | 26 |
| 84 | 25,543 | 10,263 | 10,263 | - | 17 | - | 17 |
| 85 | 16,921 | 6,915 | 6,915 | - | 10 | - | 10 |
| 86 | 11,089 | 4,602 | 4,602 | - | 6 | - | 6 |
| 87 | 7,193 | 3,040 | 3,040 | - | 4 | - | 4 |
| 88 | 4,610 | 1,975 | 1,975 | - | 2 | - | 2 |
| 89 | 2,925 | 1,276 | 1,276 | - | 1 | - | 1 |
| 90 | 1,834 | 813 | 813 | - | 1 | - | 1 |
| 91 | 1,136 | 520 | 520 | _ | 0 | - | 0 |
| 92 | 686 | 315 | 315 | - | 0 | - | 0 |
| 93 | 413 | 200 | 200 | - | 0 | - | 0 |
| 94 | 238 | 124 | 124 | - | 0 | - | 0 |
| 95 | 128 | 67 | 67 | - | 0 | _ | 0 |
| 96 | 69 | 41 | 41 | - | 0 | _ | 0 |
| 97 | 32 | 17 | 17 | _ | 0 | _ | 0 |
| 98 | 17 | 10 | 10 | _ | 0 | _ | 0 |
| 99 | 8 | 5 | 5 | - | 0 | - | 0 |
| 100 | 3 | 3 | 3 | 0 | 0 | 0 | 0 |
| 100 | 3 | 3 | 3 | Totals | \$ 176,305,408 | | \$ 176,305,408 |

