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Volunteer Firefighters Retirement Fund of New Mexico

GASB Statement No. 67 Supplemental Report Prepared as of June 30, 2018



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TABLE OF CONTENTS

| Section | <u>Item</u> | Page No. |
|------------|------------------------------------|----------|
| I | Introduction | 1 |
| II | Financial Statement Notes | 3 |
| III | Required Supplementary Information | 6 |
| IV | Notes to the Required Schedules | 10 |
| Appendix A | Actuarial Assumptions | 11 |

Section I - Introduction

The Governmental Accounting Standards Board issued Statement No. 67 (GASB 67), "Financial Reporting for Pension Plans," in June 2012. GASB 67's effective date is for plan years beginning after June 15, 2013. This report, prepared as of June 30, 2018 (the Measurement Date), presents information to assist PERA in meeting the requirements of GASB 67. Much of the material provided in this report is based on the data, assumptions and results of the annual actuarial valuation of the Volunteer Firefighters Retirement Fund (the Fund) as of June 30, 2017. The Board adopted new economic and mortality assumptions after the valuation date but prior to the measurement date. The June 30, 2017 liabilities were rolled-forward using these new assumptions to produce the June 30, 2018 liabilities. The actuarial assumptions used are included in Appendix A.

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan's provision applicable to the membership and beneficiaries of the Plan on the Measurement Date. If the FNP is projected to not be depleted at any point in the future, which is the current result for the Fund, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, in a future year, the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The rate used, if necessary, for this purpose is determined using the Municipal Bond Index published by the Bond Buyer.

To the best of our knowledge, this supplemental report is complete and accurate. It relies on much of the information contained in the annual actuarial valuations of the Fund. The annual valuation reports should be distributed along with this report to interested parties. The actuarial calculations were performed by qualified actuaries according to generally accepted actuarial procedures and methods. Further, the calculations were prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board and, in our opinion, meet the requirements of GASB 67. The undersigned 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 sections that follow provide the results of all the necessary calculations, presented in the order laid out in GASB 67 for note disclosure and Required Supplementary Information (RSI).

Respectfully Submitted,

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Section II – Financial Statement Notes

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

The information required by paragraphs 30(a)(1)-(3) are to be supplied by PERA.

The data required by paragraph 30(a)(4) regarding the Plan membership were furnished by PERA. The following table summarizes the membership of the Plan as of June 30, 2017, the Actuarial Valuation Date.

| _ Category | Number |
|---|--------|
| Inactive Members or Their Beneficiaries Currently Receiving Benefits | 1,211 |
| Inactive Members Entitled to But Not Yet Receiving Benefits | 430 |
| Active Members | 7,491 |
| Total | 9,132 |

Membership

The information required by paragraphs 30(a)(5)-(6) as well as paragraphs 30(b)-(f) are to be supplied by PERA. The information required by paragraph 31(a) is provided in the following table. As stated above, the Net Pension Liability is equal to the Total Pension Liability minus the Plan's Net Position. That result as of June 30, 2018 is presented in the table below.

| Calculation of the Net Pension Lial as of Fiscal Year Ending June 3 | |
|---|--|
| Total Pension Liability Plan's Fiduciary Net Position Net Pension Liability | 50,802,454 69,287,453 (18,484,999) |
| Ratio of Fiduciary Net Position to Total Pension Liability | 136.39% |

Section II – Financial Statement Notes

Paragraph 31(b) requires information regarding the actuarial assumptions used to measure the TPL. The actuarial assumptions utilized in developing the TPL are those contained in Appendix A of this report. Please refer to the actuarial valuation reports for the summary of the benefits provided through the Fund.

Long-Term Expected Rate of Return

The long-term expected rate of return on pension plan investments was determined using statistical analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and most recent best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

| Asset Class | Target Allocation | Long-Term Expected Real Rate of Return |
|------------------------------|----------------------|---|
| Global Equity | 43.5% | 7.48% |
| Risk Mitigation | 21.5 | 2.37 |
| Credit Oriented Fixed Income | 15.0 | 5.47 |
| Real Assets | 20.0 | 6.48 |
| Total | 100.0% | |

Discount rate. Previously, a select and ultimate rate of return assumption had been adopted for funding purposes but new economic assumptions were adopted for the June 30, 2018 valuations including the change to a 7.25% static rate. The discount rate used to measure the total pension liability for the Fund is 7.25%. The projection of cash flows used to determine the discount rate assumed that future contributions will be made in accordance with statutory rates. On this basis, the pension plan's fiduciary net position together with the expected future contributions are sufficient to provide all projected future benefit payments of current plan members as determined in accordance with GASB Statement No. 67. Therefore, the 7.25% assumed long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Section II – Financial Statement Notes

Paragraph 31(b)(1)(g) requires disclosure of the sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the Fund, calculated using the discount rate of 7.25 percent, as well as what the Fund's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.25 percent) or 1percentage-point higher (8.25 percent) than the current rate:

| | 1% | Current | 1% | |
|-----------------------|----------------|----------------|----------------|--|
| | Increase | Discount | Decrease | |
| | (8.25%) | Rate (7.25%) | (6.25%) | |
| Net Pension Liability | \$(23,491,383) | \$(18,484,999) | \$(12,455,846) | |

June 30, 2017 is the actuarial valuation date upon which the TPL is based (paragraph 31(c)). The TPL was calculated as of June 30, 2017 using the new economic and mortality assumptions adopted by the Board. Update procedures were used to roll forward the liabilities to the June 30, 2018 Measurement Date.

There are several tables of Required Supplementary Information (RSI) that need to be included in the Fund's financial statements. The tables for paragraphs 32(a)-(c) are provided on the following pages. The end of year total pension liability (TPL) was determined by "rolling-forward." This method determines the end of year amount by assuming that there were no changes in the TPL during the year due to actual experience being different than expected for that plan year. The money-weighted rates of return required for paragraph 32(d) are to be determined by PERA's investment professionals.

Actuarial assumptions are contained in Appendix A of this report.

| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|--------------|--------------|--------------|--------------|--------------|------|
| Total pension liability | | | | | | |
| Service Cost | 1,253,736 | 1,250,564 | 1,439,931 | 2,336,574 | 2,203,655 | |
| Interest | 2,871,904 | 3,104,991 | 3,375,898 | 3,584,437 | 3,555,496 | |
| Benefit changes | 0 | 0 | 0 | | | |
| Difference between expected | | | | | | |
| and actual experience | 0 | 874,372 | (498,350) | (4,101,311) | (2,503,558) | |
| Changes of assumptions | 408,092 | 0 | 1,975,872 | (221,833) | 1,362,635 | |
| Benefit payments | (1,418,943) | (1,633,388) | (1,835,318) | (2,030,784) | (2,318,519) | |
| Refunds of contributions | 0 | 0 | 0 | 0 | 0 | |
| Net change in total pension liability | 3,114,789 | 3,596,539 | 4,458,033 | (432,917) | 2,299,709 | |
| Total pension liability - beginning | 37,766,301 | 40,881,090 | 44,477,629 | 48,935,662 | 48,502,745 | |
| Total pension liability - ending (a) | 40,881,090 | 44,477,629 | 48,935,662 | 48,502,745 | 50,802,454 | |
| Plan net position | | | | | | |
| Contributions - employer | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | |
| Contributions - member | 0 | 0 | 0 | 0 | 0 | |
| Net investment income | 8,919,556 | 1,093,757 | 206,024 | 6,682,231 | 4,512,059 | |
| Benefit payments | (1,418,943) | (1,633,388) | (1,835,318) | (2,030,784) | (2,318,519) | |
| Administrative expense | (44,316) | (42,596) | (46,902) | (51,792) | (57,574) | |
| Refunds of contributions | 0 | 0 | 0 | 0 | 0 | |
| Other | 404,492 | 12,201 | 51,385 | 1,425 | 719 | |
| Net change in plan net position | 8,610,789 | 179,974 | (874,811) | 5,351,080 | 2,886,685 | |
| Plan net position - beginning | 53,312,473 | 61,923,262 | 62,103,236 | 61,049,688 | 66,400,768 | |
| Prior period adjustments | - | - | (178,737) | 0 | 0 | |
| Plan net position - beginning, Restated | 53,312,473 | 61,923,262 | 61,924,499 | 61,049,688 | 66,400,768 | |
| Plan net position - ending (b) | 61,923,262 | 62,103,236 | 61,049,688 | 66,400,768 | 69,287,453 | |
| Net pension liability - ending (a) - (b) | (21,042,172) | (17,625,607) | (12,114,026) | (17,898,023) | (18,484,999) | |

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

| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|--------------|--------------|--------------|--------------|--------------|------|
| | | | | | | |
| Total pension liability | 40,881,090 | 44,477,629 | 48,935,662 | 48,502,745 | 50,802,454 | |
| Plan net position | 61,923,262 | 62,103,236 | 61,049,688 | 66,400,768 | 69,287,453 | |
| Net pension liability | (21,042,172) | (17,625,607) | (12,114,026) | (17,898,023) | (18,484,999) | |
| Ratio of plan net position to total pension liability | 151.47% | 139.63% | 124.76% | 136.90% | 136.39% | |
| Covered-employee payroll | N/A | N/A | N/A | N/A | N/A | |
| Net pension liability as a percentage of covered-employee payroll | N/A | N/A | N/A | N/A | N/A | |

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

| | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 |
|--|----------------|-----------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|----------------|
| Statutorily required employer contributions | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 |
| Actual employer contributions | <u>750,000</u> | 750.000 | <u>750,000</u> | <u>750.000</u> | <u>750,000</u> | 750,000 | 750,000 | 750,000 | 750.000 | <u>750.000</u> |
| Annual contribution deficiency (excess) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Covered-employee payroll | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Actual contributions as a percentage of covered-employee payroll | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

SCHEDULE OF EMPLOYER CONTRIBUTIONS GASB 67 Paragraph 32(c)

Section IV: Notes to the Required Schedules

Summary of Actuarial Methods and Assumptions for Valuation

| Actuarial valuation date | June 30, 2017 |
|----------------------------|--------------------------------------|
| Actuarial cost method | Entry Age Normal |
| Amortization method | Level Dollar, Open |
| Amortization period | 30 Years |
| Asset valuation method | 4 Year Smoothed Market Value |
| Actuarial Assumptions: | |
| Investment rate of return | 7.25% annual rate, net of investment |
| | expense |
| Payroll Growth | N/A |
| Projected salary increases | N/A |

In addition, under paragraph 34, the following should be noted regarding the RSI:

The actuarial assumptions utilized in developing the TPL are those contained in Appendix A of this report. The SEIR rate changed from 7.51% to 7.25%. Additionally, the Board adopted updated economic and mortality assumptions as follows:

| Assumption | Previous | Current |
|---------------------------|---|-------------------|
| Rate of Inflation | a select & ultimate rate of 2.25% and 2.75% | 2.50% static rate |
| Investment Rate of Return | a select & ultimate rate of 7.25% and 7.75% | 7.25% static rate |

New mortality assumptions were adopted for the June 30, 2018 valuation as follows: RPH-2014 Blue Collar mortality table with female ages set forward one year. Future improvement in mortality rates is assumed using 60% of the MP-2017 projection scale generationally.

The Schedule of Changes in the Net Pension Liability provided on page 7 of this supplemental report provides the impact to the calculation of the TPL due to these changes.

There were no changes to the benefit provisions which impact the measurements provided in this supplemental report.

Actuarial Assumptions Used for Determining the Total Pension Liability (TPL)

Assumed Rate of Investment Return. 7.25% per annum net of investment expenses.

Discount Rate for Determining the TPL: 7.25%.

20-Year Municipal Bond Rate as of Measurement Date: N/A.

The rates of separation (effective June 30, 2016) from active membership were as follows:

| Sample Ages | Years of Service | Percent of Active Members Separating Within Next Year |
|----------------|---------------------|--|
| ALL | 0 | 18.00% |
| TILL . | 1 | 10.00 |
| | 2 | 8.50 |
| | 3 | 8.00 |
| | 4 | 7.50 |
| 25 | 5 & Over | 6.90 |
| 30 | | 5.90 |
| 35 | | 5.20 |
| 40 | | 5.00 |
| 45 | | 5.00 |
| 50 | | 5.00 |
| 55 | | 5.00 |
| 60 | | 5.00 |

| Ages | Percent of Active Members Retiring Within Next Year |
|-------|--|
| 55 | 35.0% |
| 56 | 25.0 |
| 57 | 20.0 |
| 58-59 | 23.0 |
| 60 | 25.0 |
| 61-66 | 30.0 |
| 67-69 | 45.0 |
| 70 | 100.0 |

The rates of retirement (effective June 30, 2016) from active membership were as follows:

Mortality Assumption (effective with June 30, 2018 valuation). RPH-2014 Blue Collar mortality table with female ages set forward one year. Future improvement in mortality rates is assumed using 60% of the MP-2017 projection scale generationally.

| Sample Mortality Rates (Base Rates) | | | | | | | | | |
|-------------------------------------|----------|----------|-------------------|----------|----------|-------------------|---|----------|--|
| Pre-Commencement | | | Post-Commencement | | | Post-Commencement | | | |
| Age | Male | Female | Age | Male | Female | Age | Male | Female | |
| 25 | 0.000733 | 0.000244 | 35 | 0.001793 | 0.001169 | 80 | 0.053460 | 0.042932 | |
| 30 | 0.000717 | 0.000317 | 40 | 0.002156 | 0.001611 | 85 | 0.088524 | 0.072752 | |
| 35 | 0.000797 | 0.000417 | 45 | 0.003275 | 0.002671 | 90 | 0.146859 | 0.125111 | |
| 40 | 0.000958 | 0.000598 | 50 | 0.005604 | 0.004235 | 95 | 0.223428 | 0.197901 | |
| 45 | 0.001455 | 0.001013 | 55 | 0.007342 | 0.005165 | 100 | 0.313988 | 0.291040 | |
| 50 | 0.002490 | 0.001685 | 60 | 0.009893 | 0.006890 | 105 | Disabled retirees use the same assumption as healthy lives. | | |
| 55 | 0.004071 | 0.002510 | 65 | 0.014089 | 0.010092 | 110 | | | |
| 60 | 0.006743 | 0.003606 | 70 | 0.021101 | 0.016038 | 115 | | | |
| 65 | 0.011612 | 0.005456 | 75 | 0.032952 | 0.026199 | 120 | | | |

Miscellaneous and Technical Assumptions

| Marriage Assumption: | All members are assumed to be married for purposes of death-in- service benefits. Male spouses are assumed to be three years older than female spouses. At retirement, 90% of members are assumed to be married for purposes of valuing death after retirement benefits. | | | | |
|---------------------------------|--|--|--|--|--|
| Pay Increase Timing: | N/A. | | | | |
| Decrement Timing: | Decrements of all types are assumed to occur at the beginning of the year. | | | | |
| Eligibility Testing: | Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur. | | | | |
| Decrement Relativity: | Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects. | | | | |
| Decrement Operation: | Neither disability nor withdrawal decrements operate during retirement eligibility. | | | | |
| Incidence of Contributions: | Contributions are assumed to be received in the middle of the year. | | | | |
| Normal Form of Benefit: | A 66-2/3% automatic joint and survivor payment is the assumed normal form of benefit for married members. Straight life is the assumed normal form of benefit for single members. | | | | |
| Benefit Service: | Service nearest the whole year is used to determine the amount of benefit payable. | | | | |
| Average Entry Age: | Age 38.60 was assumed in cases where insufficient data was provided. Active members were assumed to accrue 0.75 years of service credit in each future year. | | | | |
| Non-Vested Inactive Members: | Members with at least 5 years of service and a last reported date within the last 5 years are valued similarly to deferred vested members in order to recognize potential liability these members hold. | | | | |