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**Volunteer Firefighters Retirement  
Fund of New Mexico**

**GASB Statement No. 67 Supplemental Report  
Prepared as of June 30, 2014**



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## Section I - Introduction

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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, 2014 (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, 2013. Assumption changes adopted by the Board during the fiscal year were used to produce the June 30, 2014 liabilities. Those actuarial assumptions are included in Appendix A.

GASB 67 replaces GASB 25 and represents a significant departure from the requirements of that older statement. GASB 25 was issued as a funding friendly statement that required pension plans to report items consistent with the results of the plan’s actuarial valuations, as long as those valuations met certain parameters. GASB 67 basically divorces accounting and funding, creating disclosure and reporting requirements that may or may not be consistent with the basis used for funding the Plan.

A major change in GASB 67 is the requirement to determine the Total Pension Liability (TPL) utilizing the Entry Age Normal actuarial funding method. The Net Pension Liability (NPL) is the TPL minus the Plan’s Fiduciary Net Position (FNP) (basically the market values of assets).

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 the General Obligation 20-year Municipal Bond Index published monthly by the St. Louis Federal Reserve Bank.

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

## Section I - Introduction

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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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Senior Actuary

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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, 2013, the Actuarial Valuation Date.

### Membership

Category	Number
Inactive Members or Their Beneficiaries Currently Receiving Benefits	762
Inactive Members Entitled to But Not Yet Receiving Benefits	805
Active Members	6,461
<b>Total</b>	<b>8,028</b>

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, 2014 is presented in the table below.

Calculation of the Net Pension Liability (NPL) as of Fiscal Year Ending June 30, 2014	
Total Pension Liability	40,881,090
Plan's Fiduciary Net Position	61,923,262
Net Pension Liability	(21,042,172)
Ratio of Fiduciary Net Position to Total Pension Liability	151.47%

## 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
US Equity	21.1%	5.00%
International Equity	24.8	5.20
Private Equity	7.0	8.20
Core and Global Fixed Income	26.1	1.85
Fixed Income Plus Sectors	5.0	4.80
Real Estate	5.0	5.30
Real Assets	7.0	5.70
Absolute Return	<u>4.0</u>	4.15
Total	100.0%	

*Discount rate.* The discount rate used to measure the total pension liability was 7.75 percent. 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 7.75% 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

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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 7.75 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 (6.75 percent) or 1-percentage-point higher (8.75 percent) than the current rate:

	1% Decrease (6.75%)	Current Discount Rate (7.75%)	1% Increase (8.75%)
Net Pension Liability	(16,289,638)	(21,042,172)	(25,000,127)

June 30, 2013 is the actuarial valuation date upon which the TPL is based (paragraph 31(c)). Update procedures were used to roll forward the liabilities to the June 30, 2014 Measurement Date.

## **Section III – Required Supplementary Information**

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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 were changed during the fiscal year. The new actuarial assumptions are contained in Appendix A of this report.

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## Section III – Required Supplementary Information

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

	2014	2015	2016	2017	2018
<b>Total pension liability</b>					
Service Cost	1,253,736				
Interest	2,871,904				
Benefit changes	0				
Difference between expected and actual experience	0				
Changes of assumptions	408,092				
Benefit payments	(1,418,943)				
Refunds of contributions	0				
<b>Net change in total pension liability</b>	<b>3,114,789</b>				
<b>Total pension liability - beginning</b>	<b>37,766,301</b>				
<b>Total pension liability - ending (a)</b>	<b>40,881,090</b>				
<b>Plan net position</b>					
Contributions - employer	750,000				
Contributions - member	0				
Net investment income	8,919,556				
Benefit payments	(1,418,943)				
Administrative expense	(44,316)				
Refunds of contributions	0				
Other	404,492				
<b>Net change in plan net position</b>	<b>8,610,789</b>				
<b>Plan net position - beginning</b>	<b>53,312,473</b>				
<b>Plan net position - ending (b)</b>	<b>61,923,262</b>				
<b>Net pension liability - ending (a) - (b)</b>	<b>(21,042,172)</b>				

## Section III – Required Supplementary Information

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

	2014	2015	2016	2017	2018
Total pension liability	40,881,090				
Plan net position	61,923,262				
Net pension liability	(21,042,172)				
Ratio of plan net position to total pension liability	151.47%				
Covered-employee payroll	N/A				
Net pension liability as a percentage of covered-employee payroll	N/A				

## Section III – Required Supplementary Information

### SCHEDULE OF EMPLOYER CONTRIBUTIONS GASB 67 Paragraph 32(c)

	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
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>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<u>750,000</u>	<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

## Section IV: Notes to the Required Schedules

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### Summary of Actuarial Methods and Assumptions for Valuation

Actuarial valuation date	June 30, 2013
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	7.75% 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. Assumption changes effective June 30, 2014 primarily include lower rate of inflation and changes to rates of mortality. 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 the adoption of the new assumptions.

## Appendix A: Actuarial Assumptions

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

**Assumed Rate of Investment Return.** 7.75% per annum net of investment expenses.

**Discount Rate for Determining the TPL:** 7.75%.

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

**The rates of separation** from active membership were as follows:

Sample Ages	Years of Service	Percent of Active Members Separating Within Next Year
ALL	0	24.00%
	1	18.00
	2	15.00
	3	14.50
	4	14.00
25	5 & Over	10.50
30		10.00
35		9.75
40		9.50
45		9.25
50		9.00
55		8.75
60		8.50

## Appendix A: Actuarial Assumptions

The rates of retirement from active membership were as follows:

Ages	Percent of Active Members Retiring Within Next Year
55	40.0%
56	30.0
57	25.0
58	25.0
59	25.0
60	30.0
61	30.0
62	30.0
63	30.0
64	40.0
65	100.0

**Mortality Assumption (effective June 30, 2014):** RP-2000 Mortality Tables (Combined table for healthy post-retirement, Employee table for active members, and Disabled table for disabled retirees before retirement age) with projection to 2018 using Scale AA. This assumption includes between 5% and 8% margin sufficient to allow for modest future improvement in the rates of mortality.

Sample Mortality Rates								
Pre-Retirement			Post-Retirement			Disabled		
Age	Male	Female	Age	Male	Female	Age	Male	Female
25	0.0003	0.0002	45	0.0012	0.0008	45	0.0178	0.0056
30	0.0004	0.0002	50	0.0015	0.0012	50	0.0209	0.0085
35	0.0007	0.0004	55	0.0026	0.0024	55	0.0251	0.0143
40	0.0009	0.0005	60	0.0050	0.0046	60	0.0314	0.0200
45	0.0012	0.0008	65	0.0099	0.0089	65	Uses healthy post-retirement rates upon surviving to normal retirement age.	
50	0.0015	0.0012	70	0.0169	0.0153	70		
55	0.0021	0.0022	75	0.0294	0.0243	75		
60	0.0036	0.0036	80	0.0537	0.0404	80		
65	0.0059	0.0053	85	0.0976	0.0695	85		

## Appendix A: Actuarial Assumptions

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### Miscellaneous and Technical Assumptions

<b>Marriage Assumption:</b>	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.
<b>Pay Increase Timing:</b>	N/A.
<b>Decrement Timing:</b>	Decrements of all types are assumed to occur at the beginning of the year.
<b>Eligibility Testing:</b>	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.
<b>Decrement Relativity:</b>	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
<b>Decrement Operation:</b>	Disability and mortality decrements operate during the first 5 years of service. Only mortality operates during retirement eligibility.
<b>Incidence of Contributions:</b>	Contributions are assumed to be received in the middle of the year.
<b>Normal Form of Benefit:</b>	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.
<b>Benefit Service:</b>	Service nearest the whole year is used to determine the amount of benefit payable.
<b>Average Entry Age:</b>	Age 39.34 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.
<b>Non-Vested Inactive Members:</b>	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.