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Volunteer Firefighters Retirement Fund of New Mexico

GASB Statement No. 67 Supplemental Report Prepared as of June 30, 2021



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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, 2021 (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, 2020. The June 30, 2020 liabilities were rolled forward to produce the June 30, 2021 total pension liability (TPL) used in this report. The actuarial assumptions used are included in Appendix A. Based on the provisions of GASB 67, the Volunteer Firefighters Retirement Fund is a single-employer defined benefit pension plan.

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the fiduciary net position (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 monthly average of the Bond Buyers General Obligation 20-year Municipal Bond Index Rate (formerly published monthly by the Board of Governors of the Federal Reserve System).

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. The calculations are based on the current provisions of the Fund, and on actuarial assumptions that are internally consistent and individually reasonable based on the actual experience of the Fund. 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.

Section I - Introduction



In order to prepare the results in this report, we have utilized appropriate actuarial models that were developed for this purpose. These models use assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

We note that as we are preparing this report, the world is in the midst of a pandemic. We have considered available information but do not believe that there is yet sufficient data to warrant the modification of any of our assumptions. We will continue to monitor the situation and advise in the future of any adjustments that we believe would be appropriate.

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,

Bryan Hoge, FSA, EA, MAAA, FCA Consulting Actuary

John J. Garrett, ASA, MAAA, FCA Principal and Consulting Actuary



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, 2020, the date of the valuation used to determine the June 30, 2021 total pension liability.

Category	Number
Inactive Members or Their Beneficiaries Currently Receiving Benefits	1,537
Inactive Members Entitled to But Not Yet Receiving Benefits	367
Active Members	8,014
Total	9,918

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. The Net Pension Liability is equal to the Total Pension Liability minus the Plan's Net Position. That result as of June 30, 2021 is presented in the table below.

Calculation of the Net Pension Liability (NPL) as of Fiscal Year Ending June 30, 2021						
Total Pension Liability Plan's Fiduciary Net Position Net Pension Liability	\$53,125,982 <u>84,718,801</u> (\$31,592,819)					
Ratio of Fiduciary Net Position to Total Pension Liability	159.47%					



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 best estimates of arithmetic real rates of return for each major asset class, as provided by the System's investment consultant in 2020 based on the System's revised investment policy, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global Equity	35.5%	5.9%
Risk Reduction & Mitigation	19.5	1.0
Credit Oriented Fixed Income	15.0	4.2
Real Assets to include Real Estate Equity	20.0	6.0
Multi Risk Allocation	<u>10.0</u>	6.4
Total	100.0%	

Discount 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

The FNP projections are based upon the Plan's financial status on the measurement date, the indicated set of methods and assumptions, and the requirements of GASB 67. As such, the FNP projections are not reflective of the cash flows and asset accumulations that would occur on an ongoing plan basis, reflecting the impact of future members. Therefore, the results of this test do not necessarily indicate whether or not the fund will actually run out of money, the financial condition of the Fund, or the Fund's ability to make benefit payments in future years.

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%)	
Total pension liability	\$ 48,132,025	\$ 53,125,982	\$ 59,112,517	
Plan net position	84,718,801	<u>84,718,801</u>	<u>84,718,801</u>	
Net Pension Liability	\$(36,586,776)	\$(31,592,819)	\$(25,606,284)	

June 30, 2020 is the actuarial valuation date upon which the TPL is based (paragraph 31(c)). The TPL was calculated as of June 30, 2020 using the economic and mortality assumptions adopted by the Board as well as demographic assumptions resulting from the experience study for the fouryear period ending June 30, 2019. Standard update procedures were used to roll forward the liabilities to the June 30, 2021 Measurement Date.



There are several tables of Required Supplementary Information (RSI) that are required 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. Impact of changes to the assumptions and benefit terms are appropriately measured and provided in the supplementary information. 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.



SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY GASB 67 Paragraph 32(a)									
	2014	2015	2016	2017	2018	2019	2020	2021	
Total pension liability									
Service Cost	1,253,736	1,250,564	1,439,931	2,336,574	2,203,655	2,193,612	2,250,251	2,040,378	
Interest	2,871,904	3,104,991	3,375,898	3,584,437	3,555,496	3,594,117	3,715,452	3,663,151	
Benefit changes	0	0	0						
Difference between expected									
and actual experience	0	874,372	(498,350)	(4,101,311)	(2,503,558)	(1,572,799)	(2,142,042)	(1,724,766)	
Changes of assumptions	408,092	0	1,975,872	(221,833)	1,362,635	0	(1,853,146)	(
Benefit payments	(1,418,943)	(1,633,388)	(1,835,318)	(2,030,784)	(2,318,519)	(2,456,858)	(2,625,832)	(2,757,990)	
Refunds of contributions	0	0	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	1,758,072	(655,317)	1,220,773	
Total pension liability - beginning	37,766,301	40,881,090	44,477,629	48,935,662	48,502,745	50,802,454	52,560,526	51,905,209	
Total pension liability - ending (a)	40,881,090	44,477,629	48,935,662	48,502,745	50,802,454	52,560,526	51,905,209	53,125,982	
Plan net position									
Contributions - employer	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	
Contributions - member	0	0	0	0	0	0	0	(
Net investment income	8,919,556	1,093,757	206,024	6,682,231	4,512,059	4,318,953	(1,056,611)	17,949,887	
Benefit payments	(1,418,943)	(1,633,388)	(1,835,318)	(2,030,784)	(2,318,519)	(2,456,858)	(2,625,832)	(2,757,990)	
Administrative expense	(44,316)	(42,596)	(46,902)	(51,792)	(57,574)	(62,918)	(67,207)	(60,201)	
Refunds of contributions	0	0	0	0	0	0	0	(
Other	404,492	12,201	51,385	1,425	719	0	0	125	
Net change in plan net position	8,610,789	179,974	(874,811)	5,351,080	2,886,685	2,549,177	(2,999,650)	15,881,821	
Plan net position - beginning	53,312,473	61,923,262	62,103,236	61,049,688	66,400,768	69,287,453	71,836,630	68,836,980	
Prior period adjustments	-	-	(178,737)	0	0	0	0	(
Plan net position - beginning, Restated	53,312,473	61,923,262	61,924,499	61,049,688	66,400,768	69,287,453	71,836,630	68,836,980	
Plan net position - ending (b)	61,923,262	62,103,236	61,049,688	66,400,768	69,287,453	71,836,630	68,836,980	84,718,801	
Net pension liability - ending (a) - (b)	(21,042,172)	(17,625,607)	(12,114,026)	(17,898,023)	(18,484,999)	(19,276,104)	(16,931,771)	(31,592,819)	



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

	2014	2015	2016	2017	2018	2019	2020	2021
Total pension liability	40,881,090	44,477,629	48,935,662	48,502,745	50,802,454	52,560,526	51,905,209	53,125,982
Plan net position	61,923,262	<u>62,103,236</u>	<u>61,049,688</u>	<u>66,400,768</u>	<u>69,287,453</u>	<u>71,836,630</u>	<u>68,836,980</u>	<u>84,718,801</u>
Net pension liability	(21,042,172)	(17,625,607)	(12,114,026)	(17,898,023)	(18,484,999)	(19,276,104)	(16,931,771)	(31,592,819)
Ratio of plan net position to total pension liability	151.47%	139.63%	124.76%	136.90%	136.39%	136.67%	132.62%	159.47%
Covered-employee payroll	N/A	N/A	N/A	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	N/A	N/A	N/A



	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
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	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000
Annual contribution deficiency (excess)	0	0	0	0	0	0	0	0	0	0
Covered-employee payroll	N/A									
Actual contributions as a percentage of covered-employee payroll	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, 2020
Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar, Open
Amortization period	25 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:

There were no changes to the actuarial assumptions which impact the measurements provided in this supplemental report.

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 expected administrative expenses: \$60,000

The rates of separation (effective June 30, 2020) from active membership were as follows:

Sample Ages	Years of Service	Percent of Active Members Separating Within Next Year
ALL	0	12.0%
	1	11.0
	2	10.0
	3	8.0
	4	6.0
25	5 & Over	4.0
30		4.0
35		4.0
40		4.0
45		4.0
50		5.0
55		5.0
60		6.0



Ages	Percent of Active Members Retiring Within Next Year
55	35.0%
56	30.0
57	25.0
58	20.0
59	20.0
60	20.0
61	20.0
62	25.0
63	25.0
64	25.0
65	25.0
66	25.0
67	25.0
68	25.0
69	25.0
70	100.0

The rates of retirement (effective June 30, 2020) 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)									
P	re-Commen	cement	Po	st-Commen	icement	Pos	t-Commeno	ement		
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	D' 11 1			
55	0.004071	0.002510	65	0.014089	0.010092	110	Disabled retirees use			
60	0.006743	0.003606	70	0.021101	0.016038	115	the same assumption as healthy lives.			
65	0.011612	0.005456	75	0.032952	0.026199	120	as nearing	11765.		



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 38.12 was assumed in cases where insufficient data was provided. Active members were assumed to accrue 0.65 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.