January 30, 2015

CONFIDENTIAL

Mr. Dave DeJonge Assistant Executive Director Public Employees Ret. Assoc. of MN 60 Empire Drive, Suite 200 St. Paul, MN 55103

Re: Projection of Contributions and Funding Status – Police & Fire Plan

Dear Dave:

Attached are 30-year projections of estimated funded status, required contributions, and statutory contributions under three asset return scenarios for the Public Employees Police & Fire Plan. The estimates are based on participant data, assumptions, methods, and plan provisions as detailed in the Police & Fire Plan Actuarial Valuation Report for funding purposes as of July 1, 2014.

As required by the State of Minnesota Standards for Actuarial Work, the projections reflect three asset return scenarios. The statutory investment return assumption is a select and ultimate approach with rates of 8.0% for the 5-year period ending June 30, 2017 and 8.5% thereafter. The scenarios assume future investment returns of 1.5% more than the assumed rate, the assumed rate, and 1.5% less than the assumed rate. Note that we believe the 10% rate of return assumption is outside of the range of reasonable expected returns for this plan.

Note that as funding ratios decline, as they are expected to in some of the investment return scenarios shown in this letter, it will be increasingly difficult for the plan to attain the assumed investment return. Each year, a larger proportion of assets is paid out in benefits, and less capital is available to invest.

The estimates are based on the market value of assets with no smoothing of investment gains or losses. In all scenarios, the valuation interest rate used to discount liabilities was the single effective interest rate used in the July 1, 2014 valuation of 8.41%, which produces a similar liability stream as trending to a liability that reflects the expiration of the 5-year select period on June 30, 2017.

Payroll is assumed to increase approximately 3.75% a year over the long-term, consistent with the valuation assumption for total payroll growth.

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The projection is an open group projection; meaning, active members projected to retire or otherwise terminate in the future are replaced with new active members so that the total active membership of the fund remains at 10,879 members. The profile of these new members is the same as new members of each fund hired between July 1, 2010 and July 1, 2013:

- Average age at hire is 29.8
- Average salary at hire is \$50,300
- Approximately 12% female, 88% male

If actuarial accrued liability exceeds assets, the unfunded actuarial accrued liability is amortized through June 30, 2041 per Minnesota Statute 356.215, Subdivision 11. As directed by PERA, the statutory amortization date is assumed to be changed to June 30, 2071 once the current period expires in 2041. Per Minnesota Statute 356.215, Subdivision 11 (1), a negative unfunded actuarial accrued liability (i.e., when assets exceed liability) is amortized over a rolling 30-year period.

The State of Minnesota provides a \$9,000,000 contribution to the fund each October 1 until both the State Patrol Fund and the PERA Police and Fire plan become 90% funded (on a Market Value basis). For purposes of this projection, the \$9,000,000 contribution is assumed to continue until the Police and Fire plan reaches the threshold required to pay a 2.5% benefit increase.

Post-retirement Benefit Increases

A very significant assumption affecting the projected estimates is the expectation of annual increases in the benefits being paid to retirees and beneficiaries. If the plan reaches a funding ratio of 90% (on a market value of assets basis) for two consecutive years in the future, post-retirement increases will revert to the 2.5% level.

For the actuarial valuation as of July 1, 2014, an actuarial projection was performed to estimate when this plan is expected to attain the threshold required to pay a 2.5% post-retirement benefit increase. The projection indicated that if all assumptions were met, the threshold is expected to be attained in the year 2023, and that the plan would begin paying 2.5% benefit increases on January 1, 2024. This assumption is reflected in our valuation calculations and in the 8.5% ultimate rate of return projection scenario.

Under the 10% ultimate rate of return scenario, the funded status of the plan is expected to improve. As the plan experiences greater than expected investment return each year, the assumed 2.5% benefit increase date of January 1, 2024 is accelerated. We performed a projection to estimate when the plan is expected to attain the threshold required to pay a 2.5% post-retirement benefit increase if future investment returns are 9.5% through June 30, 2017 and 10.0% thereafter. This projection indicated the plan would begin paying a 2.5% benefit increase on January 1, 2020 under this investment return scenario. To approximate the acceleration of the assumed 2.5% benefit increase a proportionate amount between 2014 and 2020.

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Under the 7% ultimate rate of return scenario, the funded status of the plan is expected to deteriorate. As the plan experiences lower than expected investment returns each year, the assumed 2.5% benefit increase date becomes later each year until it is no longer projected to be attained. We assumed for purposes of this projection that this transition from the current assumption that the benefit increase will change from 1.0% to 2.5% on January 1, 2024 to an assumption that the benefit increase will remain at 1.0% for all years would occur by July 1, 2043.

Comments

To the best of our knowledge and belief, the calculations were completed in accordance with the requirements of Minnesota Statutes, Section 356.215, and the requirements of the Standards for Actuarial Work established by the Legislative Commission on Pensions and Retirement.

This report should not be relied upon for any purpose other than the purpose described herein. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results. GRS is not responsible for the consequences of any unauthorized use.

The valuation was based upon information furnished by the Public Employees Retirement Association of Minnesota (PERA), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215 the Legislative Commission on Pensions and Retirement (LCPR), and the Trustees. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis of the valuation report. PERA is solely responsible for communicating to GRS any changes required thereto.

Guidance regarding the selection of economic assumptions for measuring pension obligations is provided by Actuarial Standards of Practice (ASOP) No. 27. A revision of ASOP No. 27, applicable to valuation dates on or after September 30, 2014, will guide assumption setting for future valuations. A recent review of inflation and investment return assumptions for accounting and financial reporting purposes resulted in a recommended range of 7% to 8% for the assumed investment return. Additional review and discussion will be required before the next valuation.

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.

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Professional Qualifications

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

Bonita J. Wurst and Brian B. Murphy are Members of the American Academy of Actuaries (MAAA) and meet the Oualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. In addition, Mr. Murphy meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief the information contained in this report is accurate and fairly presents the actuarial position of the Public Employees Police & Fire Plan as of the valuation date and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. 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.

Sincerely,

Bonito J. Wurst

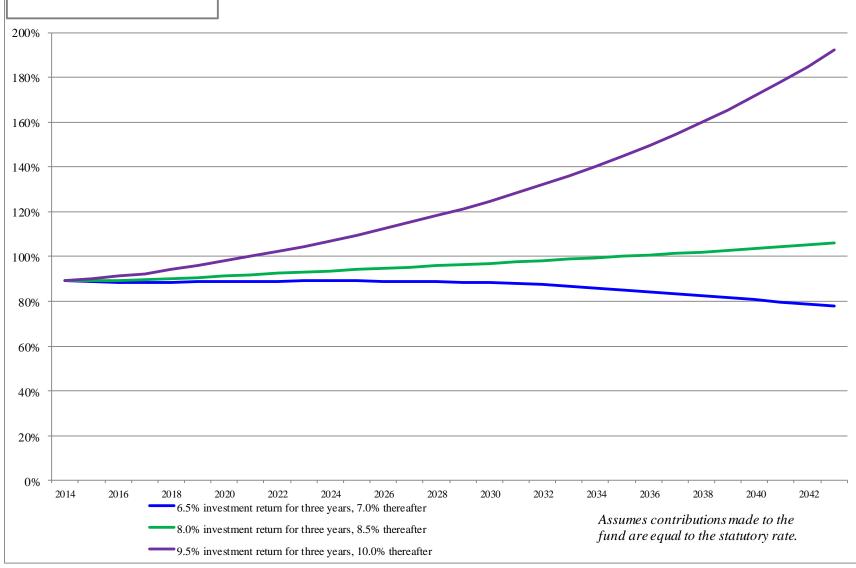
Bonita J. Wurst, ASA, EA, MAAA

Brian B. Murphy, FSA, EA, MARA, FCA

BJW/BBM:sc Enclosures

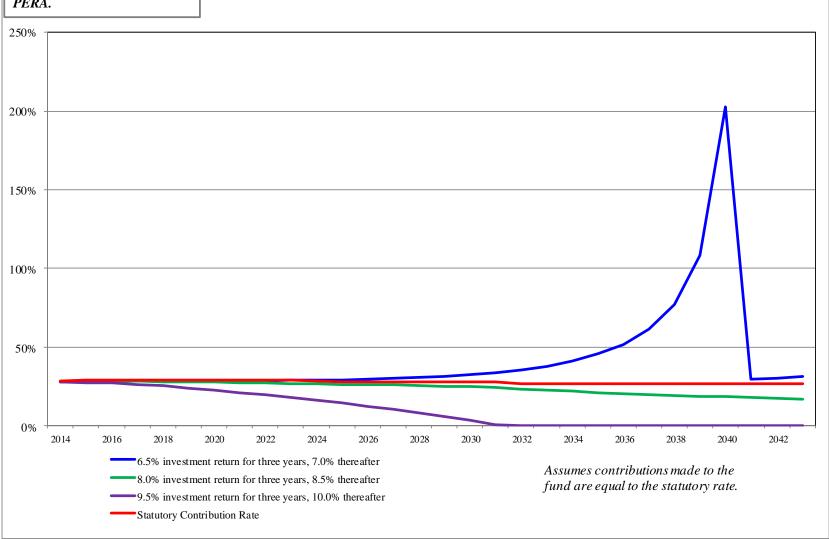
This exhibit should only be viewed in conjunction with GRS' January 30, 2015 letter to PERA.

Public Employees Police & Fire Plan Estimated Funded Ratio



This exhibit should only be viewed in conjunction with GRS' January 30, 2015 letter to PERA.

Public Employees Police & Fire Plan Estimated Required Contribution Rates



This exhibit should only be viewed in conjunction with GRS'		Public Employees Police & Fire Plan Scenario: 6.5% for Three Years, 7.0% thereafter											
January 30, 2015 letter to PERA.		Fiscal year beginning July 1											
\$ in Thousands	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
Contributions (% of Payroll)													
Statutory - Chapter 353	28.7%	29.3%	29.3%	29.2%	29.2%	29.1%	29.0%	29.0%	28.9%	28.8%			
Required - Chapter 356 (MVA)	28.1%	28.2%	28.4%	28.7%	28.6%	28.6%	28.6%	28.6%	28.7%	28.9%			
Sufficiency / (Deficiency)	0.7%	1.1%	0.9%	0.6%	0.5%	0.5%	0.4%	0.3%	0.2%	(0.0)%			
Contributions													
Statutory - Chapter 353	238,269	252,257	261,185	269,705	278,314	287,165	296,183	305,448	315,047	325,062			
Required - Chapter 356 (MVA)	232,639	242,930	253,420	264,635	273,302	282,326	291,919	302,200	313,318	325,440			
Sufficiency / (Deficiency)	5,630	9,327	7,765	5,070	5,012	4,839	4,264	3,248	1,729	(378)			
Funding Ratios													
Current Assets (MVA)	7,273,100	7,473,178	7,685,609	7,905,419	8,170,573	8,445,366	8,727,738	9,017,210	9,313,156	9,615,083			
Actuarial Accrued Liability (AAL)	8,151,328	8,409,312	8,675,461	8,950,034	9,233,296	9,525,524	9,827,001	10,138,019	10,458,880	10,789,897			
Unfunded AAL	878,228	936,134	989,852	1,044,615	1,062,723	1,080,158	1,099,263	1,120,809	1,145,724	1,174,814			
Funding Ratio	89%	89%	89%	88%	88%	89%	89%	89%	89%	89%			
Benefit Payments	501,532	516,118	531,243	547,261	564,459	584,538	605,761	628,314	652,115	677,326			

This exhibit should only be viewed in conjunction with GRS'		Public Employees Police & Fire Plan Scenario: 6.5% for Three Years, 7.0% thereafter										
January 30, 2015 letter to PERA.		Fiscal year beginning July 1										
\$ in Thousands	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		
Contributions (% of Payroll)												
Statutory - Chapter 353	28.8%	28.7%	28.7%	28.6%	28.5%	28.5%	28.4%	28.4%	27.6%	27.6%		
Required - Chapter 356 (MVA)	29.1%	29.3%	29.7%	30.2%	30.7%	31.5%	32.4%	33.6%	35.4%	38.0%		
Sufficiency / (Deficiency)	(0.3)%	(0.6)%	(1.0)%	(1.6)%	(2.2)%	(3.0)%	(4.0)%	(5.2)%	(7.9)%	(10.4)%		
Contributions												
Statutory - Chapter 353	335,351	346,061	357,240	368,915	381,188	393,818	406,968	420,651	423,330	438,101		
Required - Chapter 356 (MVA)	338,777	353,579	370,195	389,042	410,561	435,293	464,087	498,133	543,909	603,560		
Sufficiency / (Deficiency)	(3,426)	(7,518)	(12,955)	(20,127)	(29,373)	(41,475)	(57,119)	(77,482)	(120,579)	(165,459)		
Funding Ratios												
Current Assets (MVA)	9,922,378	10,234,501	10,550,521	10,869,702	11,192,255	11,518,803	11,849,035	12,182,603	12,519,334	12,847,010		
Actuarial Accrued Liability (AAL)	11,131,390	11,483,691	11,847,142	12,222,096	12,608,917	13,007,981	13,419,675	13,844,399	14,317,302	14,814,656		
Unfunded AAL	1,209,012	1,249,190	1,296,621	1,352,394	1,416,662	1,489,178	1,570,640	1,661,796	1,797,968	1,967,646		
Funding Ratio	89%	89%	89%	89%	89%	89%	88%	88%	87%	87%		
Benefit Payments	703,696	731,711	761,167	791,129	821,310	852,420	884,632	917,770	951,918	987,186		

This exhibit should only be viewed in conjunction with GRS'		Public Employees Police & Fire Plan Scenario: 6.5% for Three Years, 7.0% thereafter											
January 30, 2015 letter to PERA.		Fiscal year beginning July 1											
\$ in Thousands	2034	2034 2035 2036 2037 2038 2039 2040 2041 204											
Contributions (% of Payroll)													
Statutory - Chapter 353	27.6%	27.5%	27.5%	27.5%	27.5%	27.5%	27.4%	27.4%	27.4%	27.4%			
Required - Chapter 356 (MVA)	41.3%	45.7%	51.9%	61.2%	76.9%	108.2%	202.6%	29.7%	30.4%	31.2%			
Sufficiency / (Deficiency)	(13.7)%	(18.2)%	(24.4)%	(33.8)%	(49.4)%	(80.8)%	(175.1)%	(2.3)%	(3.0)%	(3.8)%			
Contributions													
Statutory - Chapter 353	453,434	469,464	486,203	503,745	522,112	541,305	561,405	582,348	604,186	626,887			
Required - Chapter 356 (MVA)	679,259	778,977	917,035	1,122,073	1,460,898	2,133,934	4,144,754	630,990	670,945	714,212			
Sufficiency / (Deficiency)	(225,825)	(309,513)	(430,832)	(618,328)	(938,786)	(1,592,629)	(3,583,349)	(48,642)	(66,759)	(87,325)			
Funding Ratios													
Current Assets (MVA)	13,176,352	13,506,596	13,836,951	14,167,054	14,496,684	14,825,631	15,153,567	15,480,798	15,807,257	16,133,031			
Actuarial Accrued Liability (AAL)	15,327,619	15,856,499	16,401,586	16,963,664	17,543,711	18,142,831	18,762,110	19,403,340	20,068,113	20,758,283			
Unfunded AAL	2,151,267	2,349,903	2,564,635	2,796,610	3,047,027	3,317,200	3,608,543	3,922,542	4,260,856	4,625,252			
Funding Ratio	86%	85%	84%	84%	83%	82%	81%	80%	79%	78%			
Benefit Payments	1,023,866	1,062,065	1,101,328	1,141,588	1,182,841	1,225,187	1,268,072	1,311,816	1,356,314	1,401,759			

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January 30, 2015 letter to PERA.		Fiscal year beginning July 1										
\$ in Thousands	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Contributions (% of Payroll)												
Statutory - Chapter 353	28.7%	29.3%	29.3%	29.2%	29.2%	29.1%	29.0%	29.0%	28.9%	28.8%		
Required - Chapter 356 (MVA)	28.1%	28.1%	28.2%	28.3%	28.2%	28.0%	27.8%	27.5%	27.3%	27.0%		
Sufficiency / (Deficiency)	0.7%	1.2%	1.1%	0.9%	1.0%	1.1%	1.3%	1.4%	1.6%	1.8%		
Contributions												
Statutory - Chapter 353	238,269	252,257	261,185	269,705	278,314	287,165	296,183	305,448	315,047	325,062		
Required - Chapter 356 (MVA)	232,639	241,634	251,253	261,441	268,713	276,024	283,284	290,531	297,755	304,962		
Sufficiency / (Deficiency)	5,630	10,623	9,932	8,264	9,601	11,141	12,899	14,917	17,292	20,100		
Funding Ratios												
Current Assets (MVA)	7,273,100	7,580,294	7,911,407	8,262,532	8,674,534	9,112,568	9,576,096	10,066,265	10,584,209	11,131,336		
Actuarial Accrued Liability (AAL)	8,151,328	8,482,582	8,842,288	9,222,529	9,624,266	10,048,178	10,493,313	10,960,435	11,450,226	11,963,579		
Unfunded AAL	878,228	902,288	930,881	959,997	949,732	935,610	917,217	894,170	866,017	832,243		
Funding Ratio	89%	89%	89%	90%	90%	91%	91%	92%	92%	93%		
Benefit Payments	501,532	516,118	531,243	547,261	564,459	584,538	605,761	628,314	652,115	680,840		

This exhibit should only be viewed in conjunction with GRS'	Public Employees Police & Fire Plan Scenario: 8.0% for Three Years, 8.5% thereafter										
January 30, 2015 letter to PERA.				Fi	scal year beg	ginning July	1				
\$ in Thousands	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Contributions (% of Payroll)											
Statutory - Chapter 353	28.0%	28.0%	27.9%	27.9%	27.9%	27.8%	27.8%	27.8%	27.0%	27.0%	
Required - Chapter 356 (MVA)	26.8%	26.5%	26.2%	25.9%	25.6%	25.2%	24.8%	24.2%	23.6%	22.9%	
Sufficiency / (Deficiency)	1.2%	1.5%	1.7%	2.0%	2.3%	2.6%	3.1%	3.6%	3.4%	4.1%	
Contributions											
Statutory - Chapter 353	335,351	337,061	348,240	359,915	372,188	384,818	397,968	411,651	414,330	429,101	
Required - Chapter 356 (MVA)	311,858	318,972	326,755	334,363	341,710	348,400	354,273	358,905	361,691	363,574	
Sufficiency / (Deficiency)	23,493	18,089	21,485	25,552	30,478	36,418	43,695	52,746	52,639	65,527	
Funding Ratios											
Current Assets (MVA)	11,705,426	12,297,283	12,901,861	13,528,228	14,177,835	14,852,644	15,553,788	16,282,491	17,040,290	17,816,736	
Actuarial Accrued Liability (AAL)	12,496,515	13,045,212	13,609,255	14,188,457	14,783,608	15,395,898	16,025,806	16,673,719	17,340,269	18,026,056	
Unfunded AAL	791,089	747,929	707,394	660,229	605,773	543,254	472,018	391,228	299,979	209,320	
Funding Ratio	94%	94%	95%	95%	96%	96%	97%	98%	98%	99%	
Benefit Payments	720,856	758,581	798,112	838,522	879,539	921,882	965,715	1,010,854	1,057,379	1,105,394	

This exhibit should only be viewed in conjunction with GRS'					1 0	Police & Fire l Years, 8.5%				
January 30, 2015 letter to PERA.				F	ïscal year beg	inning July 1				
\$ in Thousands	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Contributions (% of Payroll)										
Statutory - Chapter 353	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%
Required - Chapter 356 (MVA)	22.0%	20.9%	20.4%	20.0%	19.5%	19.0%	18.4%	17.9%	17.3%	16.7%
Sufficiency / (Deficiency)	5.0%	6.1%	6.6%	7.1%	7.5%	8.0%	8.6%	9.1%	9.7%	10.3%
Contributions										
Statutory - Chapter 353	444,434	460,464	477,203	494,745	513,112	532,305	552,405	573,348	595,186	617,887
Required - Chapter 356 (MVA)	361,906	355,685	360,761	365,517	369,864	373,705	377,001	379,584	381,362	382,175
Sufficiency / (Deficiency)	82,528	104,779	116,442	129,228	143,248	158,600	175,404	193,764	213,824	235,712
Funding Ratios										
Current Assets (MVA)	18,624,466	19,464,878	20,339,523	21,250,562	22,200,492	23,192,035	24,228,017	25,312,151	26,448,072	27,639,856
Actuarial Accrued Liability (AAL)	18,731,658	19,457,436	20,203,737	20,971,408	21,761,476	22,575,086	23,413,348	24,278,066	25,170,846	26,093,539
Unfunded AAL	107,192	(7,442)	(135,786)	(279,154)	(439,016)	(616,949)	(814,669)	(1,034,085)	(1,277,226)	(1,546,317)
Funding Ratio	99%	100%	101%	101%	102%	103%	103%	104%	105%	106%
Benefit Payments	1,155,179	1,206,836	1,259,915	1,314,369	1,370,204	1,427,542	1,485,848	1,545,433	1,606,221	1,668,406

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January 30, 2015 letter to PERA.		Fiscal year beginning July 1										
\$ in Thousands	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Contributions (% of Payroll)												
Statutory - Chapter 353	28.7%	29.3%	29.3%	29.2%	29.2%	29.1%	28.1%	28.1%	28.1%	28.0%		
Required - Chapter 356 (MVA)	28.1%	27.6%	27.1%	26.5%	25.4%	24.1%	22.7%	21.0%	19.6%	18.0%		
Sufficiency / (Deficiency)	0.7%	1.7%	2.2%	2.8%	3.8%	4.9%	5.4%	7.1%	8.5%	10.1%		
Contributions												
Statutory - Chapter 353	238,269	252,257	261,185	269,705	278,314	287,165	287,183	296,448	306,047	316,062		
Required - Chapter 356 (MVA)	232,639	237,655	241,465	244,257	242,388	238,316	231,733	221,972	213,199	202,511		
Sufficiency / (Deficiency)	5,630	14,602	19,720	25,448	35,926	48,849	55,450	74,476	92,848	113,551		
Funding Ratios												
Current Assets (MVA)	7,273,100	7,687,410	8,140,418	8,629,938	9,200,530	9,819,128	10,487,763	11,197,661	11,955,342	12,764,350		
Actuarial Accrued Liability (AAL)	8,151,328	8,528,998	8,924,166	9,337,643	9,770,278	10,222,957	10,696,610	11,183,943	11,685,993	12,202,652		
Unfunded AAL	878,228	841,588	783,748	707,705	569,748	403,829	208,847	(13,718)	(269,349)	(561,698)		
Funding Ratio	89%	90%	91%	92%	94%	96%	98%	100%	102%	105%		
Benefit Payments	501,532	516,118	531,243	547,261	564,459	584,538	608,903	640,236	673,076	707,862		

This exhibit should only be viewed in conjunction with GRS'			S			Employees Police & Fire Plan 6 for Three Years, 10.0% thereafter					
January 30, 2015 letter to PERA.				Fi	scal year beg	ginning July	1				
\$ in Thousands	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Contributions (% of Payroll)											
Statutory - Chapter 353	28.0%	28.0%	27.9%	27.9%	27.9%	27.8%	27.8%	27.8%	27.0%	27.0%	
Required - Chapter 356 (MVA)	16.3%	14.5%	12.5%	10.5%	8.3%	6.0%	3.6%	1.0%	0.0%	0.0%	
Sufficiency / (Deficiency)	11.7%	13.5%	15.4%	17.4%	19.6%	21.8%	24.3%	26.8%	27.0%	27.0%	
Contributions											
Statutory - Chapter 353	326,351	337,061	348,240	359,915	372,188	384,818	397,968	411,651	414,330	429,101	
Required - Chapter 356 (MVA)	189,557	174,190	156,159	135,162	110,929	82,898	50,769	14,069	-	-	
Sufficiency / (Deficiency)	136,794	162,871	192,081	224,753	261,259	301,920	347,199	397,582	414,330	429,101	
Funding Ratios											
Current Assets (MVA)	13,628,211	14,551,091	15,537,355	16,591,984	17,721,568	18,933,790	20,236,095	21,636,601	23,144,545	24,757,845	
Actuarial Accrued Liability (AAL)	12,733,453	13,278,375	13,837,291	14,409,973	14,997,428	15,601,138	16,221,808	16,859,947	17,516,490	18,192,287	
Unfunded AAL	(894,758)	(1,272,716)	(1,700,064)	(2,182,011)	(2,724,140)	(3,332,652)	(4,014,287)	(4,776,654)	(5,628,055)	(6,565,558)	
Funding Ratio	107%	110%	112%	115%	118%	121%	125%	128%	132%	136%	
Benefit Payments	744,177	782,374	822,333	863,019	904,124	946,362	989,969	1,034,661	1,080,562	1,127,958	

This exhibit should only be viewed in conjunction with GRS'					1 0	Police & Fire						
January 30, 2015 letter to PERA.		Fiscal year beginning July 1										
\$ in Thousands	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043		
Contributions (% of Payroll)												
Statutory - Chapter 353	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%		
Required - Chapter 356 (MVA)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Sufficiency / (Deficiency)	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%		
Contributions												
Statutory - Chapter 353	444,434	460,464	477,203	494,745	513,112	532,305	552,405	573,348	595,186	617,887		
Required - Chapter 356 (MVA)	-	-	-	-	-	-	-	-	-	-		
Sufficiency / (Deficiency)	444,434	460,464	477,203	494,745	513,112	532,305	552,405	573,348	595,186	617,887		
Funding Ratios												
Current Assets (MVA)	26,498,160	28,376,785	30,406,258	32,600,985	34,976,973	37,551,886	40,345,069	43,378,667	46,676,626	50,265,357		
Actuarial Accrued Liability (AAL)	18,887,874	19,603,371	20,339,036	21,095,813	21,874,831	22,677,404	23,504,863	24,359,536	25,243,541	26,159,186		
Unfunded AAL	(7,610,286)	(8,773,414)	(10,067,222)	(11,505,172)	(13,102,142)	(14,874,482)	(16,840,206)	(19,019,131)	(21,433,085)	(24,106,171)		
Funding Ratio	140%	145%	149%	155%	160%	166%	172%	178%	185%	192%		
Benefit Payments	1,177,255	1,228,478	1,281,054	1,334,923	1,390,054	1,446,530	1,503,605	1,561,613	1,620,536	1,680,642		

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