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April 21, 2016

Mr. James A. Potvin
Executive Director
Georgia Military Pension Fund
Two Northside 75, Suite 300
Atlanta, GA 30318-7701

Dear Mr. Potvin:

Enclosed is the "Georgia Military Pension Fund Report of the Actuary on the Valuation Prepared as of June 30, 2015".

The valuation indicates that employer contributions for the fiscal year ending June 30, 2018 of \$2,377,312 or \$172.85 per active member are sufficient to support the benefits of the Fund.

Please let us know if there are any questions concerning the report.

Sincerely yours,

Edward A. Macdonald, ASA, FCA, MAAA
President

Cathy Turcot
Principal and Managing Director

Edward J. Koebel, EA, FCA, MAAA
Principal and Consulting Actuary

Enclosure

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EMPLOYEES'
RETIREMENT SYSTEM
OF GEORGIA

GEORGIA MILITARY PENSION FUND

**REPORT OF THE ACTUARY ON THE VALUATION
PREPARED AS OF JUNE 30, 2015**





Cavanaugh Macdonald

CONSULTING, LLC

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April 21, 2016

Board of Trustees
Georgia Military Pension Fund
Two Northside 75, Suite 300
Atlanta, GA 30318

Attention: Mr. James A. Potvin, Executive Director

Members of the Board:

Section 47-24-22 of the law governing the operation of the Georgia Military Pension Fund provides that the actuary shall make periodic valuations of the contingent assets and liabilities of the Pension Fund on the basis of regular interest and the tables last adopted by the Board of Trustees. We have submitted the report giving the results of the actuarial valuation of the Fund prepared as of June 30, 2015. The report indicates that annual employer contributions of \$2,377,312 or \$172.85 per active member for the fiscal year ending June 30, 2018 are sufficient to support the benefits of the Fund.

Since the previous valuation, various assumptions and methods have been revised to reflect the results of the experience investigation for the five-year period ending June 30, 2014.

In preparing the valuation, the actuary relied on data provided by the Fund. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. Our firm, as actuary, is responsible for all of the actuarial trend data in the financial section of the annual report and the supporting schedules in the actuarial section of the annual report.

In our opinion, the valuation is complete and accurate, and the methodology and assumptions are reasonable as a basis for the valuation. The valuation takes into account the effect of all amendments to the Fund enacted through the 2015 session of the General Assembly.

The Fund is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the Fund and to reasonable expectations of anticipated experience under the Fund. The assumptions and methods used for financial reporting purposes meet the parameters set by Actuarial Standards of Practice (ASOPS). The funding objective of the plan is that contribution rates over time will remain level as a dollar per active member. The valuation method used is the entry age normal cost method. The normal contribution rate to cover current cost has been determined as a dollar per active member. Gains and losses are reflected in the total unfunded accrued liability which is being amortized as a level dollar per active member in accordance with the funding policy adopted by the Board.

The Plan and the employers are required to comply with the financial reporting requirements of GASB Statements No. 67 and 68. The necessary disclosure information is provided in separate supplemental reports.

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April 21, 2016
Board of Trustees
Page 2

We have provided the following information and supporting schedules for the Actuarial Section of the Comprehensive Annual Financial Report:

- Summary of Actuarial Assumptions
- Schedule of Active Members
- Schedule of Funding Progress
- Schedule of Retirees Added to and Removed from Rolls
- Analysis of Change in Unfunded Accrued Liability
- Solvency Test Results

The Fund is being funded in conformity with the minimum funding standard set forth in Code Section 47-20-10 of the Public Retirement Systems Standards Law and the funding policy adopted by the Board. In our opinion the Fund is operating on an actuarially sound basis. Assuming that contributions to the Fund are made by the employer from year to year in the future at the rates recommended on the basis of the successive actuarial valuations, the continued sufficiency of the retirement fund to provide the benefits called for under the Fund may be safely anticipated.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience is performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the Fund.

Future actuarial results may differ significantly from the current results 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

Sincerely yours,

A handwritten signature in blue ink that reads 'Edward Macdonald'.

Edward A. Macdonald, ASA, FCA, MAAA
President

A handwritten signature in blue ink that reads 'Cathy Turcot'.

Cathy Turcot
Principal and Managing Director

A handwritten signature in blue ink that reads 'Edward J. Koebel'.

Edward J. Koebel, EA, FCA, MAAA
Principal and Consulting Actuary

EAM:mjn



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**GEORGIA MILITARY PENSION FUND
REPORT OF THE ACTUARY
ON THE VALUATION
PREPARED AS OF JUNE 30, 2015**

SECTION I - SUMMARY OF PRINCIPAL RESULTS

1. For convenience of reference, the principal results of the current and preceding valuations are summarized below.

Valuation Date	June 30, 2015	June 30, 2014
Number of active members	13,754	13,469
Retired members:		
Number	843	795
Annual pensions	\$ 914,100	\$ 864,180
Former members entitled to deferred vested pensions:		
Number	2,526	2,313
Annual deferred pensions	\$ 2,299,572	\$ 2,094,324
Assets:		
Market Value	\$ 16,712,000	\$ 15,251,000
Actuarial Value	16,446,000	14,264,000
Unfunded actuarial accrued liability	\$ 18,766,807	\$ 17,551,154
Funded Ratio	46.7%	44.8%
Blended Amortization period (years)	18.2	19.0
For Fiscal Year Ending	June 30, 2018	June 30, 2017
Actuarially Determined Employer Contribution (ADEC)		
Per active member:		
Normal*	\$ 32.87	\$ 18.98
Unfunded Actuarial Accrued Liability	<u>139.98</u>	<u>130.84</u>
Total	\$ 172.85	\$ 149.82
Annual Amount:		
Normal*	\$ 452,094	\$ 255,642
Unfunded Actuarial Accrued Liability	<u>1,925,218</u>	<u>1,762,233</u>
Total	\$ 2,377,312	\$ 2,017,875

*The normal contribution includes administrative expenses.



2. The major benefit and contribution provisions of the Fund as reflected in the valuation are summarized in Schedule H. The valuation takes into account the effect of amendments to the Fund enacted through the 2015 session of the General Assembly. There have been no changes since the previous valuation.
3. Since the previous valuation, various assumptions and methods have been revised to reflect the results of the experience investigation for the five year period ending June 30, 2014. These revised assumptions were adopted by the Board on December 17, 2015 and are summarized below. Schedule D of this report outlines the full set of actuarial assumptions and methods used to prepare the current valuation. The Board Funding Policy is shown in Schedule F.

Summary of Assumptions and Methods	
Economic Assumptions	
Price Inflation	Lowered assumption from 3.00% to 2.75%.
Investment Return (net of Investment expenses)	No changes to assumed rate of 7.50%.
Demographic Assumptions	
Withdrawal	Changed assumed rates.
Pre-Retirement Mortality	Changed assumed rates.
Service Retirement	Changed assumed rates.
Post-Retirement Mortality	Changed assumed rates.
Other Assumptions and Methods and Administrative Changes	
Administrative Expenses	No change to current method.
Amortization Method	No change to current method.
Asset Smoothing	No change to current method.
All others	No change to other actuarial methods.

4. The entry age actuarial cost method was used to prepare the valuation. Schedule E contains a brief description of this method.
5. Comments on the valuation results as of June 30, 2015 are given in Section IV, and further discussion of the contributions is set out in Section V.



6. We have prepared the Solvency Test and Schedule of Retirants Added to and Removed from Rolls for the Fund's Comprehensive Annual Financial Report. These tables are shown in Schedule J.

SECTION II – MEMBERSHIP DATA

1. Data for retired members of the Fund were furnished by the Retirement System. Data for active and deferred vested members of the Fund were furnished by the Defense Department. On this basis, the valuation includes 13,754 active National Guard members.
2. The following table shows the number of retired members and deferred vested members included in the valuation as of June 30, 2015, together with the amount of their annual retirement allowances payable under the Fund as of that date.

**THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF
RETIRED MEMBERS AND DEFERRED VESTED MEMBERS
AS OF JUNE 30, 2015**

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES
Retired Members, currently payable	843	\$ 914,100
Former Members, deferred allowances	2,526	2,299,572



SECTION III - ASSETS

1. As of June 30, 2015 the total market value of assets amounted to \$16,712,000 as reported by the independent Auditor of the Fund. The actuarial value of assets as of June 30, 2015 was determined to be \$16,446,000 based on a five year smoothing of investment gains and losses. Schedule B shows the development of the actuarial value of assets as of June 30, 2015.
2. Schedule C shows the receipts and disbursements of the Fund for the two years preceding the valuation date and a reconciliation of the fund balances.

SECTION IV – COMMENTS ON VALUATION

1. Schedule A of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the Fund as of June 30, 2015. The valuation was prepared in accordance with the actuarial assumptions and methods set forth in Schedule D and the actuarial cost method which is described in Schedule E.
2. The valuation balance sheet shows that the Fund has total prospective liabilities of \$35,641,508, of which \$24,074,618 is for the prospective benefits payable on account of present retired members, and members entitled to deferred vested benefits, and \$11,566,890 is for the prospective benefits payable on account of present active members. Against these liabilities, the Fund has total present assets of \$16,446,000 as of June 30, 2015. The difference of \$19,195,508 between the total liabilities and the total present assets represents the present value of contributions to be made in the future.
3. The employer's contributions to the Fund consist of normal contributions and unfunded actuarial accrued liability (UAAL) contributions. The valuation indicates that annual employer normal contributions at the rate of \$6.37 per active member are required to provide the currently accruing benefits of the Fund. An additional \$26.50 per active member is required to fund the administrative expenses of the Fund.



4. Prospective normal contributions (net of expenses) at the rate of \$6.37 have a present value of \$428,701. When this amount is subtracted from \$19,195,508, which is the present value of the total future contributions to be made by the employers, the result is a prospective unfunded actuarial accrued liability of \$18,766,807.
5. The funding policy adopted by the Board, as shown in Schedule F, provides that the unfunded actuarial accrued liability as of June 30, 2013 (Transitional UAAL) will be amortized as a level dollar amount over a closed 20-year period. In each subsequent valuation all benefit changes, assumption and method changes and experience gains and/or losses that have occurred since the previous valuation will determine a New Incremental UAAL. Each New Incremental UAAL will be amortized as a level dollar amount over a closed 20-year period from the date it is established.
6. The total accrued liability contribution rate is \$139.98 per active member, determined in accordance with the Board's funding policy.
7. Schedule G of this report shows the amortization schedules for the Transitional UAAL and New Incremental UAALs.
8. The following table shows the components of the total unfunded actuarial accrued liability (UAAL) and the derivation of the UAAL contribution rate in accordance with the funding policy.

TOTAL UAAL AND UAAL CONTRIBUTION RATE

	<u>UAAL</u>	<u>Remaining Amortization Period (years)</u>	<u>Amortization Payment</u>
Transitional	\$17,065,691	18	\$1,758,260
New Incremental June 30, 2014	39,566	19	3,973
New Incremental June 30, 2015	<u>1,661,550</u>	20	<u>162,985</u>
Total UAAL	\$18,766,807		\$1,925,218
Blended Amortization Period (years)			18.2
UAAL Contribution Rate per active member			\$139.98



SECTION V – CONTRIBUTIONS PAYABLE BY THE STATE

1. The employer's contributions to the Fund consist of a normal contribution and an unfunded actuarial accrued liability contribution (UAAL) as determined by actuarial valuation.
2. The normal contribution rate is calculated as the level dollar which, if applied for the average member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf. On the basis of the valuation, the normal contribution rate was determined to be \$6.37 per active member, or \$87,613 based on 13,754 active members as of June 30, 2015.
3. An additional \$364,481, or \$26.50 per active member, is required to fund the administrative expenses of the Fund.
4. The total normal contribution including administrative expenses is, therefore, \$452,094, or \$32.87 per active member.
5. The UAAL contribution is the level annual amount which will be sufficient to amortize the unfunded actuarial accrued liability in accordance with the Board's funding policy. The annual UAAL contribution determined on this basis by the June 30, 2015 valuation is \$1,925,218, or \$139.98 per active member.
6. The following table summarizes the employer contribution rates which were determined by the June 30, 2015 valuation and are recommended for use.

**ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC)
FOR FISCAL YEAR ENDING JUNE 30, 2018**

CONTRIBUTION	PER ACTIVE MEMBER	ANNUAL AMOUNT
Normal	\$ 32.87	\$ 452,094
Unfunded Actuarial Accrued Liability	<u>139.98</u>	<u>1,925,218</u>
Total	\$ 172.85	\$ 2,377,312



SECTION VI – ACCOUNTING INFORMATION

The information required under Governmental Accounting Standards Board (GASB) Statements No. 67 and 68 will be issued in separate reports. The following information is provided for informational purposes only.

- The following is a distribution of the number of employees by type of membership:

**NUMBER OF ACTIVE AND RETIRED MEMBERS
AS OF JUNE 30, 2015**

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	843
Terminated plan members entitled to benefits but not yet receiving benefits	2,526
Active plan members	<u>13,754</u>
Total	17,123

- The schedule of funding progress is shown below

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation	Actuarial Value of Assets	Actuarial Accrued Liability (AAL) - Entry Age	Unfunded AAL (UAAL)	Funded Ratio	Covered Payroll	UAAL as a Percentage of Covered Payroll
Date	(a)	(b)	(b - a)	(a / b)	(c)	((b - a) / c)
6/30/2010	\$ 7,558,000	\$ 23,772,737	\$ 16,214,737	31.79%	N/A	N/A
6/30/2011	8,702,000	26,766,858	18,064,858	32.51	N/A	N/A
6/30/2012	10,087,000	28,231,012	18,144,012	35.73	N/A	N/A
6/30/2013	12,131,000	30,055,570	17,924,570	40.36	N/A	N/A
6/30/2014	14,264,000	31,815,154	17,551,154	44.83	N/A	N/A
6/30/2015	16,446,000	35,212,807	18,766,807	46.70	N/A	N/A



3. The following shows the schedule of employer contributions:

<u>Year Ending</u>	<u>Actuarially Determined Employer Contribution (ADEC)</u>	<u>Percentage Contributed</u>
6/30/2010	\$1,434,000	100%
6/30/2011	1,282,000	100
6/30/2012	1,521,000	100
6/30/2013	1,703,000	100
6/30/2014	1,892,000	100
6/30/2015	1,893,000	100

4. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2015. Additional information as of the latest actuarial valuation follows.

Valuation date	6/30/2015
Actuarial cost method	Entry age
Amortization method	Level dollar, closed
Remaining amortization period	18.2 years
Asset valuation method	5-year smoothed market
Actuarial assumptions:	
Investment rate of return*	7.50%
Projected salary increases**	N/A
Cost-of-living adjustments	None

* Includes inflation at 2.75%



SECTION VII – EXPERIENCE

1. The last experience investigation was prepared for the five-year period ending June 30, 2014, and based on the results of the investigation various assumptions and methods were revised and adopted by the Board on December 17, 2015. The next experience investigation will be prepared for the period July 1, 2014 through June 30, 2019.
2. The following table shows the estimated gain or loss from various factors that resulted in an increase of \$1,215,653 in the unfunded actuarial accrued liability (UAAL) from \$17,551,154 to \$18,766,807 during the fiscal year ending June 30, 2015.
3. The most significant item contributing to the \$1,215.7 thousand increase in the UAAL was a \$985.8 thousand increase due to assumption and method changes related to the experience study. This increase was partially offset by a \$203.0 thousand gain due to a greater than expected investment return on actuarial value of assets.

ANALYSIS OF THE INCREASE IN UNFUNDED ACTUARIAL ACCRUED LIABILITY

(in thousands of dollars)

ITEM	AMOUNT OF INCREASE/ (DECREASE)
Interest (7.50%) added to previous unfunded actuarial accrued liability	\$ 1,316.3
Accrued liability contribution	(1,765.6)
Experience:	
Valuation asset growth	(203.0)
Pensioners' mortality	126.1
Turnover and retirements	120.5
New entrants	236.9
Assumption changes	985.8
Miscellaneous/Data changes	<u>398.7</u>
Total	\$ 1,215.7



SCHEDULE A

VALUATION BALANCE SHEET

**PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES
AS OF JUNE 30, 2015**

<u>ACTUARIAL LIABILITIES</u>		
Present value of prospective benefits payable on account of:		
(1) Present retired members		\$ 8,520,308
(2) Former members entitled to deferred benefits		15,554,310
(3) Present active members		<u>11,566,890</u>
(4) Total Actuarial Liabilities		<u>\$ 35,641,508</u>
<u>PRESENT AND PROSPECTIVE ASSETS</u>		
(5) Actuarial Value of Assets:		\$ 16,446,000
(6) Present value of total future contributions = (4) – (5)	\$ 19,195,508	
(7) Prospective normal contributions		428,701
(8) Prospective unfunded actuarial accrued liability contributions = (6) – (7)		<u>18,766,807</u>
(9) Total Present and Prospective Assets		<u>\$ 35,641,508</u>



SCHEDULE B

**DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS
(\$ in thousands)**

(1)	Actuarial Value Beginning of Year	\$	14,264
(2)	Market Value End of Year	\$	16,712
(3)	Market Value Beginning of Year	\$	15,251
(4)	Cash Flow		
	(a) Contributions	\$	1,893
	(b) Benefit Payments		(896)
	(c) Administrative Expenses		(121)
	(d) Investment Expenses		<u>(5)</u>
	(e) Net: (4)(a) + (4)(b) + 4(c) + 4(d)	\$	871
(5)	Investment Income		
	(a) Market Total: (2) – (3) – (4)(e)	\$	590
	(b) Assumed Rate		7.50%
	(c) Amount for Immediate Recognition: [(3) x (5)(b)] + {[4(a) + 4(b) + 4(c)] x (5)(b) x 0.5} - 4(d)	\$	1,182
	(d) Amount for Phased-In Recognition: (5)(a) - (5)(c)		(592)
(6)	Phased-In Recognition of Investment Income		
	(a) Current Year: (5)(d) / 5	\$	(118)
	(b) First Prior Year		247
	(c) Second Prior Year		0
	(d) Third Prior Year		0
	(e) Fourth Prior Year		<u>0</u>
	(f) Total Recognized Investment Gain	\$	129
(7)	Actuarial Value End of Year: (1) + (4)(e) + (5)(c) + (6)(f)	\$	16,446
(8)	Difference Between Market & Actuarial Values: (2) – (7)	\$	266
(9)	Rate of Return on Actuarial Value		8.88%



SCHEDULE C

**SUMMARY OF RECEIPTS AND DISBURSEMENTS
(Market Value)**

<u>Receipts for the Year</u>	YEAR ENDING	
	<u>June 30, 2015</u> (\$1,000's)	<u>June 30, 2014</u> (\$1,000's)
Contributions:		
Members	\$ 0	\$ 0
Employer	<u>1,893</u>	<u>1,892</u>
Subtotal	\$ 1,893	\$ 1,892
Investment Earnings (Net of Investment Expenses)	<u>585</u>	<u>2,179</u>
TOTAL	\$ 2,478	\$ 4,071
<u>Disbursements for the Year</u>		
Benefit Payments	\$ 896	\$ 841
Refunds to Members	0	0
Administrative Expenses	<u>121</u>	<u>110</u>
TOTAL	\$ 1,017	\$ 951
<u>Excess of Receipts over Disbursements</u>	\$ 1,461	\$ 3,120
<u>Reconciliation of Asset Balances</u>		
Asset Balance as of the Beginning of Year	\$ 15,251	\$ 12,131
Excess of Receipts over Disbursements	<u>1,461</u>	<u>3,120</u>
Asset Balance as of the End of Year	\$ <u>16,712</u>	\$ <u>15,251</u>
Rate of Return	3.73%	17.29%



SCHEDULE D

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

Adopted by the Board December 17, 2015.

VALUATION INTEREST RATE: 7.50% per annum, compounded annually, net of investment expenses, composed of a 2.75% inflation assumption and a 4.75% real rate of investment return assumption.

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of separation from active service are as follows:

RATES OF WITHDRAWAL FROM ACTIVE SERVICE	
SERVICE	RATES
2 & Under	13.0%
3-7	17.5
8-9	14.0
10-14	13.5
15-19	8.5
20 & Over	14.5

AGE	RATES OF RETIREMENT
60	75.0%
61	60.0
62	70.0
63	60.0
64	60.0
65 and over	100.0

AGE	RATES OF DEATH	
	Male	Female
25	0.0349%	0.0192%
30	0.0412	0.0245
35	0.0717	0.0441
40	0.1001	0.0655
45	0.1399	0.1043
50	0.1983	0.1555
55	0.2810	0.2228
60	0.4092	0.3058



DEATHS AFTER RETIREMENT: Since the Fund has minimal post-retirement mortality experience, the Fund uses the same mortality tables used for the Employees' Retirement System of Georgia, which is the RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years for both males and females. There is a margin for future mortality improvement in the tables used by the Fund. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period.

Representative values of the assumed annual rates of mortality are as follows:

Age	Men	Women	Age	Men	Women
40	0.1127%	0.0790%	65	1.1300%	0.8994%
45	0.1609	0.1230	70	1.8697	1.5281
50	0.2474	0.1872	75	3.2147	2.5220
55	0.4246	0.2918	80	5.5160	4.1628
60	0.6985	0.4923	85	9.5631	7.1239

ADMINISTRATIVE EXPENSES: Budgeted administrative expenses for the fiscal year are added to the normal cost.

AMORTIZATION METHOD: Level dollar amortization.

ASSET METHOD: Actuarial value, as developed in Schedule B. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected value of assets, based on the assumed valuation rate of return. The actuarial value was set equal to the market value as of June 30, 2013. The amount recognized each year beginning June 30, 2014 is 20% of the difference between market value and expected actuarial value.

VALUATION METHOD: Entry age actuarial cost method. See Schedule E for a brief description of this method.



SCHEDULE E

ACTUARIAL COST METHOD

1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.50%), of each member's expected benefits at retirement or death is determined, based on age, service and sex. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members, beneficiaries and members entitled to deferred vested benefits to obtain the present value of all expected benefits payable from the Fund on account of the present group of members and beneficiaries.
2. The employer contributions required to support the benefits of the Fund are determined following a level funding approach, and consist of a normal contribution and an unfunded actuarial accrued liability contribution.
3. The normal contribution is determined using the entry age actuarial cost method. Under this method, a calculation is made to determine the level amount which, if applied for the average member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
4. The unfunded actuarial accrued liability contributions are determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets, from the present value of expected benefits to be paid from the Fund.



SCHEDULE F

FUNDING POLICY OF THE GMPF BOARD OF TRUSTEES

The purpose of this Funding Policy is to state the overall objectives for the Georgia Military Pension Fund (System), the benchmarks that will be used to measure progress in achieving those goals, and the methods and assumptions that will be employed to develop the benchmarks. It is the intent of the GMPF Board of Trustees that the Funding Policy outlined herein will remain unchanged until the objectives below are met.

I. Funding Objectives

The goal in requiring employer and member contributions to the System is to accumulate sufficient assets during a member's employment to fully finance the benefits the member is expected to receive throughout retirement. In meeting this objective, the System will strive to meet the following funding objectives:

- To develop a pattern of contributions expressed both as a total dollar amount and as a dollar amount per active member and measured by valuations prepared in accordance with applicable State laws and the principles of practice prescribed by the Actuarial Standards Board.
- To maintain an increasing funded ratio (ratio of actuarial value of assets to actuarial accrued liabilities) that reflects a trend of improved actuarial condition. The long-term objective is to obtain a 100% funded ratio over a reasonable period of future years.
- To maintain adequate asset levels to finance the benefits promised to members and monitor the future demand for liquidity.
- To promote intergenerational equity for taxpayers with respect to contributions required for the benefits provided by the System.

II. Measures of Funding Progress

To track progress in achieving the System's funding objectives, the following measures will be determined annually as of the actuarial valuation date (with due recognition that a single year's results may not be indicative of long-term trends):

- **Funded Ratio** – The funded ratio, defined as the actuarial value of assets divided by the actuarial accrued liability, should increase over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial adjustments. The target funded ratio will be 100 percent within 20 years of the valuation date for the first valuation conducted following the adoption of this Policy (i.e. the June 30, 2013 valuation date).
- **Unfunded Actuarial Accrued Liability (UAAL)**
 - **Transitional UAAL** – The UAAL established as of the initial valuation date for which this funding policy is adopted shall be known as the Transitional UAAL.
 - **New Incremental UAAL** – Each subsequent valuation will produce a New Incremental UAAL consisting of all benefit changes, assumption and method changes and experience gains and/or losses that have occurred since the previous valuations.
- **UAAL Amortization Period**
 - The transitional UAAL will be amortized over a closed 20 year period beginning on the initial valuation date for which this funding policy is adopted.
 - Each New Incremental UAAL shall be amortized over a closed 20 year period beginning with the year it is incurred.



- **Employer Contributions**

- **Employer Normal Contributions** – the contribution determined as of the valuation date each year to fund the employer portion of the annual normal cost of the System based on the assumptions and methods adopted by the Board.
- In each valuation subsequent to the adoption of this funding policy the required employer contributions will be determined as the summation of the employer Normal Contribution, a contribution for administrative expenses, the amortization cost for the Transitional UAAL and the individual amortization cost for each of the New Incremental UAAL bases.
- Employer Contributions will be expressed as both a total dollar amount and as a dollar amount per active member. In no event shall the employer contributions be less than \$0.
- The valuation methodology, including the amortization of the Unfunded Actuarial Accrued Liability (UAAL), would be expected to maintain reasonably stable contributions as a dollar per active member.

III. Methods and Assumptions

The annual actuarial valuations providing the measures to assess funding progress will utilize the actuarial methods and assumptions last adopted by the Board based upon the advice and recommendations of the actuary. These include the following primary methods and assumptions:

- The actuarial cost method used to develop the benchmarks will be the Entry Age Normal (EAN) actuarial cost method.
- The long-term annual investment rate of return assumption will be 7.50% net of investment expenses.
- The actuarial value of assets will be determined by recognizing the annual differences between actual and expected market value of assets over a five-year period, beginning with the June 30, 2013 actuarial valuation.
 - Prior to the June 30, 2013 valuation, the differences between actual and expected market value of assets were recognized over a seven-year period. For the June 30, 2013 valuation, all then-current deferred gains and losses will be recognized immediately, and the initial new five-year period will begin immediately thereafter.

The employer contributions determined in an annual actuarial valuation will be at least sufficient to satisfy the annual normal cost of the System and amortize the UAAL as a level dollar amount over a period not to exceed 20 years (for the UAAL as of the June 30, 2013 valuation date, and for each successive year of gains and losses incurred in years following the June 30, 2013 valuation date). However in no event shall the employer contributions be less than \$0.

The actuary shall conduct an investigation into the System's experience at least every five years and utilize the results of the investigation to form the basis for recommended assumptions and methods. Any changes to the recommended assumptions and methods that are approved by the Board will be reflected in this Policy.

IV. Funding Policy Progress

The Board will periodically have actuarial projections of the valuation results performed to assess the current and expected future progress towards the overall funding goals of the System. These periodic projections will provide the expected valuation results over at least a 30-year period. The projected measures of funding progress and the recent historical trend provided in valuations will provide important information for the Board's assessment of the System's funding progress.



SCHEDULE G

AMORTIZATION OF TRANSITIONAL UAAL

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of Transitional UAAL</u>	<u>Annual Amortization Payment</u>
6/30/2013	20	\$17,924,570	\$1,758,260
6/30/2014	19	17,510,653	1,758,260
6/30/2015	18	17,065,691	1,758,260
6/30/2016	17	16,587,358	1,758,260
6/30/2017	16	16,073,149	1,758,260
6/30/2018	15	15,520,375	1,758,260
6/30/2019	14	14,926,143	1,758,260
6/30/2020	13	14,287,343	1,758,260
6/30/2021	12	13,600,633	1,758,260
6/30/2022	11	12,862,420	1,758,260
6/30/2023	10	12,068,841	1,758,260
6/30/2024	9	11,215,744	1,758,260
6/30/2025	8	10,298,665	1,758,260
6/30/2026	7	9,312,804	1,758,260
6/30/2027	6	8,253,004	1,758,260
6/30/2028	5	7,113,719	1,758,260
6/30/2029	4	5,888,988	1,758,260
6/30/2030	3	4,572,401	1,758,260
6/30/2031	2	3,157,071	1,758,260
6/30/2032	1	1,635,591	1,758,260
6/30/2033	0	0	0



SCHEDULE G
(Continued)

AMORTIZATION OF 2014 INCREMENTAL UAAL

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of New Incremental UAAL 6/30/2014</u>	<u>Annual Amortization Payment</u>
6/30/2014	20	\$40,501	\$3,973
6/30/2015	19	39,566	3,973
6/30/2016	18	38,560	3,973
6/30/2017	17	37,480	3,973
6/30/2018	16	36,318	3,973
6/30/2019	15	35,069	3,973
6/30/2020	14	33,726	3,973
6/30/2021	13	32,283	3,973
6/30/2022	12	30,731	3,973
6/30/2023	11	29,063	3,973
6/30/2024	10	27,270	3,973
6/30/2025	9	25,342	3,973
6/30/2026	8	23,270	3,973
6/30/2027	7	21,043	3,973
6/30/2028	6	18,648	3,973
6/30/2029	5	16,074	3,973
6/30/2030	4	13,306	3,973
6/30/2031	3	10,331	3,973
6/30/2032	2	7,133	3,973
6/30/2033	1	3,696	3,973
6/30/2034	0	0	0



SCHEDULE G
(Continued)

AMORTIZATION OF 2015 INCREMENTAL UAAL

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of New Incremental UAAL 6/30/2015</u>	<u>Annual Amortization Payment</u>
6/30/2015	20	\$1,661,550	\$162,985
6/30/2016	19	1,623,181	162,985
6/30/2017	18	1,581,935	162,985
6/30/2018	17	1,537,595	162,985
6/30/2019	16	1,489,929	162,985
6/30/2020	15	1,438,689	162,985
6/30/2021	14	1,383,605	162,985
6/30/2022	13	1,324,391	162,985
6/30/2023	12	1,260,735	162,985
6/30/2024	11	1,192,305	162,985
6/30/2025	10	1,118,743	162,985
6/30/2026	9	1,039,663	162,985
6/30/2027	8	954,653	162,985
6/30/2028	7	863,267	162,985
6/30/2029	6	765,027	162,985
6/30/2030	5	659,419	162,985
6/30/2031	4	545,890	162,985
6/30/2032	3	423,847	162,985
6/30/2033	2	292,650	162,985
6/30/2034	1	151,614	162,985
6/30/2035	0	0	0



SCHEDULE H

SUMMARY OF MAIN FUND PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

MEMBERSHIP

All persons who are members of the Georgia National Guard on and after July 1, 2002 are Members of the Fund.

BENEFITS

Retirement Allowance

Condition for Allowance

A member who has attained age 60 and has completed 20 or more years of creditable service, including at least 15 years, 10 of which immediately precede discharge, of Georgia National Guard duty, and who has received an honorable discharge, is entitled to a monthly allowance.

Amount of Allowance

The amount of the allowance is equal to \$50 per month for 20 years' creditable service with an additional \$5 per month for each additional year of creditable service, provided that the total allowance shall not exceed \$100 per month. The allowance is payable for the life of the member.

Deferred Retirement Allowance

Condition for Allowance

A member whose service is terminated after he has 20 years of creditable service, including at least 15 years, 10 of which immediately precede discharge, of Georgia National Guard duty, and who has received an honorable discharge, is eligible to receive a deferred retirement allowance commencing at age 60.

Amount of Allowance

The amount is the same as that for a service retirement.

CONTRIBUTIONS

The State makes annual contributions sufficient to meet the cost of the benefits under the Fund.



SCHEDULE I

**NUMBER OF ACTIVE MEMBERS
BY AGE AND SERVICE AS OF JUNE 30, 2015**

Age	Years of Service									
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 20	274	522	0	0	0	0	0	0	0	796
20 to 24	196	2,889	641	0	0	0	0	0	0	3,726
25 to 29	58	802	1,805	233	0	0	0	0	0	2,898
30 to 34	23	256	544	875	193	0	0	0	0	1,891
35 to 39	6	105	219	361	627	88	0	0	0	1,406
40 to 44	2	14	108	154	329	400	90	0	0	1,097
45 to 49	0	6	38	125	180	299	353	61	0	1,062
50 to 54	0	2	8	39	110	127	117	211	21	635
55 to 59	0	1	1	6	30	53	34	52	55	232
60 & Over	0	0	1	2	3	2	0	2	1	11
Total	559	4,597	3,365	1,795	1,472	969	594	326	77	13,754

Average Age: 31.2
Average Service: 9.5



SCHEDULE I
(Continued)

**NUMBER OF RETIRED MEMBERS
AND THEIR BENEFITS BY AGE**

Age	Number of Members	Total Annual Benefits	Average Annual Benefits
Under 60	0	\$ 0	\$ 0
60 – 64	294	318,660	1,084
65 – 69	403	436,500	1,083
70 – 74	146	158,940	1,089
75 & Over	0	0	0
Total	843	\$ 914,100	\$ 1,084



SCHEDULE J

CAFR SCHEDULES

GA Military: Solvency Test

Actuarial Valuation as of 6/30	Actuarial Accrued Liability for:				Portion of Aggregate Accrued Liabilities Covered by Assets		
	Active Member Contributions	Retirants & Beneficiaries	Active Members (Employer Funded Portion)	Valuation Assets	(1)	(2)	(3)
	(1)	(2)	(3)				
2015	\$0	\$24,075	\$11,138	\$16,446	N/A	68.3%	0.0%
2014	0	21,389	10,426	14,264	N/A	66.7%	0.0%
2013	0	19,396	10,660	12,131	N/A	62.5%	0.0%
2012	0	17,518	10,713	10,087	N/A	57.6%	0.0%
2011	0	15,379	11,388	8,702	N/A	56.6%	0.0%
2010	0	14,015	9,758	7,558	N/A	53.9%	0.0%
2009	0	12,742	8,279	6,413	N/A	50.3%	0.0%
2008	0	9,449	9,675	5,269	N/A	55.8%	0.0%
2007	0	7,655	12,232	4,165	N/A	54.4%	0.0%
2006	0	6,392	11,233	3,100	N/A	48.5%	0.0%

All dollar amounts are in thousands.

GA Military: Schedule of Retirants Added to and Removed from Rolls

Year Ended	Added to Rolls		Removed from Rolls		Roll End of Year		% Increase in Annual Allowances	Average Annual Allowances
	Number	Annual Allowances (in thousands)	Number	Annual Allowances (in thousands)	Number	Annual Allowances (in thousands)		
June 30, 2015	54	\$55	6	\$5	843	\$914	5.8%	\$1,084
June 30, 2014	62	68	5	6	795	864	7.7%	1,087
June 30, 2013	83	87	5	5	738	802	11.4%	1,087
June 30, 2012	95	106	3	3	660	720	16.7%	1,091
June 30, 2011	94	101	3	4	568	617	18.7%	1,086
June 30, 2010	92	100	1	1	477	520	23.5%	1,090
June 30, 2009	85	91	3	4	386	421	26.0%	1,091
June 30, 2008	71	76	2	2	304	334	28.5%	1,099
June 30, 2007	73	83	1	1	235	260	46.1%	1,106
June 30, 2006	61	69	1	1	163	178	61.8%	1,092