

The experience and dedication you deserve



GEORGIA MILITARY PENSION FUND

REPORT OF THE ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2009





The experience and dedication you deserve

August 19, 2010

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

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, 2009. The report indicates that annual employer contributions of \$1,521,245 or \$126.57 per active member for the fiscal year ending June 30, 2012 are sufficient to support the benefits of the Fund.

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 2009 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 funding purposes meet the parameters set for the disclosures presented in the financial section by Governmental Accounting Standards Board (GASB) Statement Nos. 25 and 27. The funding objective of the plan is that contribution rates over time will remain level as a percent 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 level dollar per active member. Gains and losses are reflected in the unfunded accrued liability which is being amortized as a level dollar per active member within a 20-year period.

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. 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.



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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,

Edward A. Macdonald, ASA, FCA, MAAA

President

EAM:mjn

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Muldel

Cathy Turcot

Principal and Managing Director



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GEORGIA MILITARY PENSON FUND REPORT OF THE ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2009

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, 2009	June 30, 2008
Number of active members	12,019	11,623
Retired members: Number Annual pensions Former members entitled to deferred vested pensions: Number Annual deferred pensions	386 \$ 421,200 1,808 \$ 1,622,820	304 \$ 334,440 1,307 \$ 1,169,904
Assets: Market Value Actuarial Value	\$ 5,229,000 6,413,000	\$ 4,945,000 5,269,000
Unfunded actuarial accrued liability	\$ 14,608,277	\$ 13,855,342
Amortization Period	20 years	30 years
Funded Ratio	30.5%	27.6%
For Fiscal Year Ending	June 30, 2012	June 30, 2011
Employer contribution rate per active member: Normal Accrued liability	\$ 7.35 119.22	\$ 9.35 100.93
Total	\$ 126.57	\$ 110.28
Annual Required Employer Contribution Rates (ARC): Normal Accrued liability	\$ 88,340 1,432,905	\$ 108,675 1,173,109
Total	\$ 1,521,245	\$ 1,281,784

2. The valuation takes into account the effect of amendments to the Fund enacted through the 2009 session of the General Assembly. The major benefit and contribution provisions of the Fund as reflected in the valuation are summarized in Schedule F. There have been no changes since the previous valuation.



- 3. Schedule D of this report outlines the full set of actuarial assumptions and methods used to prepare the current valuation. There have been no changes since the previous valuation.
- 4. The entry age actuarial cost method was used to prepare the valuation. Schedule E contains a brief description of this method.
- Comments on the valuation results as of June 30, 2009 are given in Section IV, and further discussion of the contributions is set out in Section V.

SECTION II - MEMBERSHIP DATA

- 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 12,019 active National Guard members.
- The following table shows the number of retired members and deferred vested members included in the valuation as of June 30, 2009, 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, 2009

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES
Retired Members, currently payable	386	\$ 421,200
Former Members, deferred allowances	1,808	1,622,820



SECTION III - ASSETS

- As of June 30, 2009 the total market value of assets amounted to \$5,229,000 as reported by the independent Auditor of the Fund. The actuarial value of assets at June 30, 2009 is \$6,413,000.
 Schedule B shows the development of the actuarial value of assets as of June 30, 2009.
- 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

- 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, 2009. 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 \$21,478,969, of which \$12,742,389 is for the prospective benefits payable on account of present retired members, and members entitled to deferred vested benefits, and \$8,736,580 for the prospective benefits payable on account of present active members. Against these liabilities, the Fund has total present assets of \$6,413,000 as of June 30, 2009. The difference of \$15,065,969 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 accrued liability contributions. The valuation indicates that annual employer normal contributions at the rate of \$7.35 per active member are required to provide the currently accruing benefits of the Fund.
- 4. Prospective normal contributions at the rate of \$7.35 have a present value of \$457,692. When this amount is subtracted from \$15,065,969, 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 \$14,608,277.



5. The accrued liability contribution is the level annual amount which will liquidate the unfunded actuarial liability over a 20-year period. The annual accrued liability contribution determined on this basis is \$1,432,905, or \$119.22 per active member.

SECTION V - CONTRIBUTIONS PAYABLE BY THE STATE

1. The following table summarizes the employer contribution rates which were determined by the June 30, 2009 valuation and are recommended for use.

ANNUAL REQUIRED EMPLOYER CONTRIBUTION RATES (ARC) FOR FISCAL YEAR ENDING JUNE 30, 2012

CONTRIBUTION	PER ACTIVE MEMBER		ANNUAL AMOUNT		
Normal	\$	7.35	\$ 88,340		
Accrued Liability		119.22	 1,432,905		
Total	\$	126.57	\$ 1,521,245		



SECTION VI – ACCOUNTING INFORMATION

1. Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of the Fund and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF JUNE 30, 2009

NUMBER
386
1,808
12,019
14,213

2. Another such item is the schedule of funding progress as shown below.

SCHEDULE OF FUNDING PROGRESS (Dollar Amounts in Thousands)

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
6/30/2004	\$ 1,250,000	\$ 12,342,583	\$ 11,092,583	10.13%	N/A	N/A
6/30/2005	2,176,000	14,453,668	12,277,668	15.06	N/A	N/A
6/30/2006	3,100,000	17,625,320	14,525,320	17.59	N/A	N/A
6/30/2007	4,165,000	19,886,788	15,721,788	20.94	N/A	N/A
6/30/2008	5,269,000	19,124,342	13,855,342	27.55	N/A	N/A
6/30/2009	6,413,000	21,021,277	14,608,277	30.51	N/A	N/A

All figures prior to 6/30/2005 were reported by the prior actuarial firm.



3. The following shows the schedule of employer contributions:

Year	Annual Required	Percentage
<u>Ending</u>	Contribution	Contributed
6/30/2005	\$ 891,000	100%
6/30/2006	891,000	100
6/30/2007	1,005,000	100
6/30/2008	1,103,000	100
6/30/2009	1,323,000	100

4. Additional information as of this actuarial valuation follows.

Valuation date	6/30/2009	
Actuarial cost method	Entry age	
Amortization method	Level dollar, open	
Remaining amortization period	20 years	
Asset valuation method	7-year smoothed market	
Actuarial assumptions:		
Investment rate of return*	7.50%	
Projected salary increases*	N/A	
Cost-of-living adjustments	None	
*Includes inflation at	3.75%	

TREND INFORMATION

Year Ending	Annual Pension Cost (APC)	Percentage of APC Contributed	Net Pension Obligation
June 30, 2007	\$ 1,005,000	100%	\$ 0
June 30, 2008	1,103,000	100	0
June 30, 2009	1,323,000	100	0



SCHEDULE A

VALUATION BALANCE SHEET

PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES AS OF JUNE 30, 2009

	Actuarial Liabilities				
	value of prospective benefits payable on account of:			•	
(1)	Present retired members			\$	3,902,582
(2)	Former members entitled to deferred benefits				8,839,807
(3)	Present active members				8,736,580
(4)	Total Actuarial Liabilities			<u>\$</u>	21,478,969
	Present and Prospective Assets	<u>i</u>			
(5)	Actuarial Value of Assets:			\$	6,413,000
(6)	Present value of total future contributions = $(4) - (5)$	\$ 15	,065,969		
(7)	Employer normal contribution rate	\$	7.35		
(8)	Present value of future membership service	\$	62,271		
(9)	Prospective normal contributions = (7) x (8)				457,692
(10)	Prospective unfunded actuarial accrued liability contributions = (6) – (9)				14,608,277
(11)	Total Present and Prospective Assets			<u>\$</u>	<u>21,478,969</u>



SCHEDULE B

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

(1)	Actu	arial Value Beginning of Year	\$ 5,269
(2)	Mark	et Value End of Year	\$ 5,229
(3)	Mark	xet Value Beginning of Year	\$ 4,945
(4)	Cash	n Flow	
	(a)	Contributions	\$ 1,323
	(b)	Benefit Payments	 (382)
	(c)	Net: (4)(a) + (4)(b)	\$ 941
(5)	Inves	stment Income	
	(a)	Market Total: (2) - (3) - (4)(c)	\$ (657)
	(b)	Assumed Rate	7.50%
	(c)	Amount for Immediate Recognition: $[(3) \times (5)(b)] + [(4)(c) \times (5)(b) \times 0.5]$	\$ 406
	(d)	Amount for Phased-In Recognition: (5)(a) – (5)(c)	\$ (1,063)
(6)	Phas	sed-In Recognition of Investment Income	
	(a)	Current Year: (5)(d) / 7	\$ (152)
	(b)	First Prior Year	(78)
	(c)	Second Prior Year	35
	(d)	Third Prior Year	(8)
	(e)	Fourth Prior Year	0
	(f)	Fifth Prior Year	0
	(g)	Sixth Prior Year	 0
	(h)	Total Recognized Investment Gain	\$ (203)
(7)	Actu	arial Value End of Year: (1) + (4)(c) + (5)(c) + (6)(h)	\$ 6,413
(8)	Diffe	rence Between Market & Actuarial Values: (2) - (7)	\$ (1,184)
(9)	Rate	of Return on Actuarial Value	3.54%



SCHEDULE C

SUMMARY OF RECEIPTS AND DISBURSEMENTS (\$ in thousands)

	YEAR ENDING			3
Receipts for the Year		<u>June 30, 2009</u>		e 30, 2008
Contributions: Members Employers	\$	0 1,323	\$	0 1,103
Total	\$	1,323	\$	1,103
Investment earnings		(657)		(191)
Administrative expense allotment		0		0
Total	\$	666	\$	912
Disbursements for the Year				
Retirement allowances	\$	382	\$	303
Refunds to members		0		0
Administration expense		0		0
Total	\$	382	\$	303
Excess of Receipts over Disbursements	\$	284	\$	609
Reconciliation of Asset Balances				
Asset Balance as of the Beginning of Year (Market Value)	\$	4,945	\$	4,336
Excess of receipts over disbursements		284		609
Asset Balance as of the End of Year (Market Value)	<u>\$</u>	5,229	<u>\$</u>	4,945
Return of Return		(12.13)%		(4.03)%



SCHEDULE D

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

Adopted by the Board on February 19, 2009 with the exception of the valuation interest rate which was adopted based on the June 30, 2004 valuation.

INTEREST RATE: 7.50% per annum, compounded annually.

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
10 or less	15%
11-13	11
14-19	8
20 or more	13

AGE	RATES OF RETIREMENT
60	60.0%
61	33.3
62	33.3
63	33.3
64	33.3
65 and over	100.0

AGE	RATES OF DEATH
25	.07%
30	.07
35	.09
40	.18
45	.29
50	.40
55	.60
60	.85

DEATHS AFTER RETIREMENT: The 1994 Group Annuity Mortality Table set forward two years for both males and females.

ASSETS: 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 amount recognized each year is 1/7 of the difference between market value and expected market 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.
- 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

SUMMARY OF PROVISIONS

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.