

County : ALL

Class : 2

Mun : Pittsburgh

Code # : 02-261-2

Plan Type : P

PC-201C  
Commonwealth of Pennsylvania  
Public Employee Retirement Commission  
P. O. Box 1429  
Harrisburg, PA 17105-1429

2005

ACT 205 ACTUARIAL VALUATION REPORT:  
POLICE PENSION PLAN  
WITH DEFINED BENEFITS

FILING DEADLINE: March 31, 2006

RECEIPT PERC APR - 4 2006

FRMTYPE	REVIEW	CODE	INPUT	EDP	LOG
C	OK 6/5/06	C	PW 6/15/06	5/10/06 OK	PW 4/5/06

Section I - Identification of Municipality

INSTRUCTIONS: Print or type requested information in the space provided.

Note: In Part A, home rule municipalities should check the box and enter the number of their previous municipal classification.

A. Type of Municipality ..... 2 Item No. (1)  
(Check appropriate box below and enter corresponding number.)

- City (2)
- Township (1<sup>st</sup>) (4)
- Borough (3)
- Township (2<sup>nd</sup>) (5)
- Town (3)
- Authority (6)
- COG/Regional Entity (7)

B. Name of Municipality CITY OF PITTSBURGH (2)

C. Name of County ALLEGHENY (3)

Section II - Identification of Pension Plan and Specification of Valuation Date

INSTRUCTIONS: Print or type requested information in space provided.

A. Name of Pension Plan CITY OF PITTSBURGH POLICEMEN'S RELIEF AND PENSION FUND (4)

B. Date on which pension plan was established ..... 09 / 01 / 1935 (5)  
Mo. Da. Yr.

C. Valuation date for demographic, financial and actuarial data ..... 01 / 01 / 2005 (6)  
(Use 1/1/2005 unless otherwise specified in plan document prior to 12/31/1982.)  
Mo. Da. Yr.

Section III - General Information

INSTRUCTIONS: Respond to each question by entering "yes" or "no" in the space provided.

- A. Is Social Security coverage provided for the active members of the pension plan identified in Section II? NO (8)
B. Do any active members of the pension plan identified in Section II participate in any other pension plan or plans that receive funding from the municipality? NO (9)
C. Do any of the active members of the pension plan identified in Section II work on average less than 35 hours per week? NO (10)
D. Does the pension plan identified in Section II include active members who are not employees of the municipality identified in Section I? NO (11)
E. Do retired members of the pension plan identified in Section II receive any benefit, such as insurance coverage, that is provided wholly or partially by the municipality and not funded through the pension plan identified in Section II? YES (12)

Section IV - Demographic Data as of JANUARY 1, 2005 (Valuation Date)

INSTRUCTIONS: Enter valuation date specified in Section II, Part C, in the space provided above and on each page of Schedule A. Print or type information requested in Part A in the space provided. Enter zero, if applicable. Do not leave blanks or refer to the schedules or exhibits. Complete Schedule A. Then complete the certification in Part B below.

A. Summary of Demographic Data

- 1. Number of active members on valuation date 804 (13)
2. Total annual payroll of active members as of above valuation date \$ 50,252,864 (14)
3. Number of members terminated with vested or deferred benefit on valuation date 10 (15)
4. As of valuation date, number of persons receiving:
a. Retirement benefits 730 (16)
b. Disability benefits 428 (17)
c. Surviving spouse benefits 502 (18)
d. Surviving child benefits 3 (19)
e. Total (a+b+c+d) 1,663 (20)
5. As of valuation date, total annual benefits payable as:
a. Retirement benefits \$ 18,123,506 (21)
b. Disability benefits \$ 9,694,076 (22)
c. Surviving spouse benefits \$ 3,567,070 (23)
d. Surviving child benefits \$ 16,380 (24)
e. Total (a+b+c+d) \$ 31,401,032 (25)

B. Certification of Demographic Data

I hereby certify that I have prepared and reviewed the demographic data entered in Part A of this section and in Schedule A; and I further certify that the information provided is to the best of my knowledge true and accurate.

(Signature) [Handwritten Signature] (Date) 3/31/06
(Name) BJ Heber (Title) (Telephone)

**Section V - Financial Data as of JANUARY 1, 2005 (Valuation Date)**

**INSTRUCTIONS:** Enter valuation date specified in Section II, Part C, in the space provided above and on each page of Schedule B. Print or type the data requested in Part A, rounded to the nearest dollar, in the space provided. Enter zero, if applicable. Do not leave blanks or refer to exhibits. Complete Schedule B. Then complete the certification in Part B below.

**Note:** The asset values provided in Part A of this section and in Schedule B must include all the assets of the pension plan regardless of custodial arrangements involving administrative agencies.

**A. Summary of Financial Data**

1. MARKET VALUE OF ASSETS, <i>excluding the cash surrender values of individual insurance and annuity contracts</i> , on the above valuation date .....	\$ 117,821,971	(26)
2. CASH SURRENDER VALUE of individual insurance and annuity contracts on the above valuation date or nearest anniversary date .....	\$ 0	(27)
3. TOTAL FUND ASSETS (1 + 2) on the above valuation date .....	\$ 117,821,971	(28)
4. INVESTMENT INCOME, <i>excluding individual insurance and annuity contract dividends</i> , for the year ended on the above valuation date .....	\$ 3,613,025	(29)
5. REALIZED CAPITAL GAINS/LOSSES for the year ended on the above valuation date (+ or -) .....	\$ 0	(30)
6. DIVIDENDS ON INSURANCE/ANNUITY CONTRACTS for the year ended on the above valuation date .....	\$ 0	(31)
7. MEMBER CONTRIBUTIONS to plan for the year ended on the above valuation date (Include employee contributions treated as employer contributions pursuant to Section 414(h) of the Internal Revenue Code.) .....	\$ 3,306,730	(32)
8. MUNICIPAL CONTRIBUTIONS to plan, <i>excluding Supplemental State Assistance monies allocated under Act 205 Recovery Program</i> , for the year ended on valuation date (8a+8b) .....	\$ 15,425,717	(33)
a. State Aid Portion \$ 6,096,378	b. Local Portion \$ 9,329,339	
9. ACTUAL MUNICIPAL DEPOSIT for the year ended on the valuation date (Item 33 + 9a - 9b) .....	\$ 15,425,717	(34)
a. Contributions Receivable at beginning of year \$ 0	b. Contributions Receivable at End of year \$ 0	
10. TOTAL MONTHLY BENEFIT PAYMENTS for the year ended on the above valuation date .....	\$ 30,267,526	(35)
11. ANNUAL INSURANCE OR ANNUITY PREMIUM PAYMENTS, <i>excluding single premium annuity purchases</i> , for the year ended on the above valuation date .....	\$ 0	(36)
12. ADMINISTRATIVE EXPENSES paid from the assets of the pension plan for the year ended on the above valuation date .....	\$ 838,111	(37)
13. MINIMUM MUNICIPAL OBLIGATION to the pension plan for the year ended on the valuation date (Enter amount reported in item 34 on page 12) .....	\$ 14,892,379	(38)

**B. Certification of Financial Data**

I hereby certify that I have prepared and reviewed the financial data entered in Part A of this section and in Schedule B; and I further certify that the information provided is to the best of my knowledge true and accurate.

(Signature)

*[Handwritten Signature]*  
BJ Heber

(Date)

3/31/06

(Name)

(Title)

(Telephone)

Section VI - Actuarial Data as of JANUARY 1, 2005 (Valuation Date)

INSTRUCTIONS: Enter valuation date specified in Section II, Part C, in the space provided above and on each page of Schedule C. Complete Part A and Part B below in accordance with the instructions provided. Complete Schedule C. Then complete the certification in Part C below.

Note: The asset values provided in Part A of this section must include all the assets of the pension plan regardless of custodial arrangements involving administrative agencies.

A. Summary of Actuarial Data

INSTRUCTIONS: Print or type the data requested, rounded to the nearest dollar, in the space provided. Enter zero or negative values, if applicable. Do not leave blanks or refer to exhibits.

1. ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS as of valuation date .....	\$ 414,398,091	(40)
2. ACTUARIAL PRESENT VALUE OF FUTURE NORMAL COST as of valuation date .....	\$ 60,918,927	(41)
3. ACTUARIAL ACCRUED LIABILITY as of valuation date .....	\$ 353,479,164	(42)
4. ACTUARIAL VALUE OF ASSETS, including aggregate insurance/annuity cash surrender value, as of valuation date .....	\$ 117,821,971	(43)
5. UNFUNDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -) .....	\$ 235,657,193	(44)
6. NORMAL COST (employer & employee), excluding administrative expenses, payable as of valuation date for the plan year beginning on valuation date:		
a. As a dollar amount .....	\$ 5,724,001	(45)
b. As a percentage of total annual payroll .....	11.390	%(46)
7. AVERAGE ADMINISTRATIVE EXPENSES payable from the assets of the pension plan in the prior plan year and the plan year beginning on valuation date <sup>1</sup> .....	\$ 804,046	(47)
8. ANNUAL COVERED PAYROLL of active members as of valuation date .....	\$ 50,252,864	(48)
9. AMORTIZATION CONTRIBUTIONS		
a. For amortization of initial unfunded actuarial accrued liability established 1/1/85. <sup>2</sup>		
1) Amortization period remaining (years) .....	33	(49)
2) Amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date .....	\$ 7,746,181	(50)
3) Amortization contribution calculated as a level percentage of payroll for the plan year beginning on valuation date <sup>3</sup> .....	\$ N/A	(51)
b. For amortization of all increases or decreases in unfunded actuarial accrued liability occurring after 1/1/85 or the initial UAL's establishment. <sup>2</sup>		
1) Aggregated amortization period (years) .....	17	(52)
2) Aggregated amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date .....	\$ 8,555,542	(53)
c. Modified Total Amortization Requirement <sup>4</sup> .....	\$ N/A	(54)
d. Total Amortization Requirement (Item 50 + 53 or Item 51 + 53 or Item 54, whichever is applicable) .....	\$ 16,301,723	(55)
10. ACTUAL OR ESTIMATED MEMBER CONTRIBUTIONS to the pension plan for the year beginning on the valuation date .....	\$ 3,306,730	(56)

**Section VI - Actuarial Data (Cont'd)**

**INSTRUCTIONS:** If insurance/annuity contracts are maintained pre-retirement to fund a portion of the benefits provided by the pension plan at retirement, enter the information requested in items 11-20 below. Otherwise, do not complete items 11-20.

**Note:** For item 20, include "side fund" amortization contribution for the initial UAL established 1/1/85 and the aggregated "side fund" amortization contribution for increases and decreases in the UAL occurring after 1/1/85. Attach a facsimile of Schedule C, Section II, to support the entry for item 20.

**A. Summary of Actuarial Data (Cont'd)**

11. ACTUARIAL PRESENT VALUE OF INSURANCE/ANNUITY CONTRACT CASH VALUES AT RETIREMENT as of valuation date .....	\$ _____	(57)
12. ADJUSTED ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS as of valuation date (1 - 11) .....	\$ _____	(58)
13. ADJUSTED ACTUARIAL PRESENT VALUE OF FUTURE NORMAL COST as of valuation date .....	\$ _____	(59)
14. ADJUSTED ACTUARIAL ACCRUED LIABILITY as of valuation date .....	\$ _____	(60)
15. ACTUARIAL VALUE OF ASSETS, excluding aggregate insurance/annuity cash surrender value, as of valuation date .....	\$ _____	(61)
16. ADJUSTED UNFUNDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -) .....	\$ _____	(62)
17. ADJUSTED NORMAL COST, excluding administrative expenses, payable as of valuation date for the plan year beginning on valuation date .....	\$ _____	(63)
18. ANNUAL INSURANCE/ANNUITY PREMIUM PAYMENTS for the plan year beginning on valuation date .....	\$ _____	(64)
19. GROSS ADJUSTED NORMAL COST for the plan year beginning on valuation date (17 + 18):		
a. As a dollar amount .....	\$ _____	(65)
b. As a percentage of payroll .....	_____	%(66)
20. ADJUSTED AMORTIZATION CONTRIBUTION calculated as a level dollar amount for the plan year beginning on valuation date .....	\$ _____	(67)

<sup>1</sup> The average of the prior year's administrative expenses and the estimated administrative expenses for the current year. If the amount entered exceeds the prior year's expenses (Section V, Part A, Item 12) by more than 10%, attach an exhibit detailing the administrative expenses for the year beginning on the valuation date.

<sup>2</sup> Initial unfunded actuarial accrued liability may be established later than 1/1/1985 if coincidental with the establishment of the pension plan or with the initiation of a new amortization schedule authorized by Act 82 of 1998.

<sup>3</sup> Enter N/A unless municipality has been certified to use level percentage of payroll amortization pursuant to Section 607 of Act 205.

<sup>4</sup> If the municipality has formally elected to apply the limit on the amortization contribution under section 202(b)(4), enter the modified total amortization requirement calculated as the amount required to amortize the unfunded actuarial accrued liability over ten years. Otherwise, enter N/A.

Section VI - Actuarial Data (Cont'd)

B. Additional Information

INSTRUCTIONS: Print or type the information requested in the space provided. Enter "N/A" if applicable. Do not leave blanks or refer to exhibits.

1. MAJOR ECONOMIC ACTUARIAL ASSUMPTIONS

- a. Interest or investment earnings rate ..... 8.75 % (68)
- b. Salary projection ..... 5.75 % (69)

2. ADMINISTRATIVE ARRANGEMENT (Enter corresponding number. ⇨) ..... 1 (70)

- |   |   |
|---|---|
| <input type="checkbox"/> 1 - Self administered fund                       | <input type="checkbox"/> 4 - Insured deposit administration contract    |
| <input type="checkbox"/> 2 - Bank or other trust fund                     | <input type="checkbox"/> 5 - Immediate participation guarantee contract |
| <input type="checkbox"/> 3 - Split-funded plan - Insurance plus side fund | <input type="checkbox"/> 6 - Pennsylvania Municipal Retirement System   |
| <input type="checkbox"/> 7 - Other (Describe) _____                       |   |

3. COST FOR ACTUARIAL SERVICES to be billed or charged for completing this reporting form and for preparing the associated actuarial valuation report ..... \$ 10,333 (71)

C. Certification of Actuarial Data

I hereby certify that I have prepared and reviewed the actuarial data and information entered in Part A and Part B of this section and in Schedule C and that the data and information provided is to the best of my knowledge true and accurate.

I further certify that I have five years of actuarial experience with public pension plans and that I am (Initial appropriate box.)

GM  a member of the American Academy of Actuaries enrolled in 1979

GM  an enrolled actuary pursuant to the Employee Retirement Income Security Act of 1974, No. 05-544

G. Herbert Loomis  
(Signature)

3/31/06  
(Date)

G. HERBERT LOOMIS  
(Name)

(412) 394-9660 (72)  
(Telephone)

MOCKENHAUPT BENEFITS GROUP  
(Name of Firm)


(73)

**Section VII - Certification of Report by the Chief Administrative Officer of the Municipality**

**INSTRUCTIONS:** Ensure that Schedule A, Schedule B and Schedule C are completed and attached to the reporting form. Review the information entered in each section of the reporting form and the information provided in the schedules. Then complete the certification below and return the original reporting form to the Commission. *Retain a copy of the completed reporting form for audit compliance purposes.*

**Note:** To be completed by the person officially designated as the Chief Administrative Officer of the municipality under Act 205 of 1984.

I hereby certify that to the best of my knowledge the information provided in this report is complete, true and accurate.

  
\_\_\_\_\_  
(Signature of Chief Administrative Officer)

3/31/06  
\_\_\_\_\_  
(Date)

B J Heber  
\_\_\_\_\_  
(Name of Chief Administrative Officer) (Print or type)

( )  
\_\_\_\_\_  
(Telephone)

Inquiries regarding completion or submission of the reporting form may be directed to:

**Commonwealth of Pennsylvania  
Public Employee Retirement Commission**

Mailing Address  
P. O. Box 1429  
Harrisburg, PA 17105-1429

Phone: (717) 783-6100  
Fax: (717) 787-9531  
E-mail: [perc@state.pa.us](mailto:perc@state.pa.us)

INSTRUCTIONS: Print or type the requested information in the space provided. For totals, enter zero if applicable. Refer to attachments or exhibits only to explain or support data entered on the schedule.

PART I - DEMOGRAPHIC DATA FOR RETIRED MEMBERS		
AGE	NUMBER	ANNUAL PENSION PAYABLE
Under 30	4	29,344
30-34	4	83,122
35-39	26	661,599
40-44	31	787,421
45-49	39	856,983
50-54	130	3,461,821
55-59	188	4,974,251
60-64	226	5,565,751
65-69	244	5,092,193
70-74	232	3,847,621
75-79	274	3,649,977
80-84	173	1,742,282
Over 84	92	648,667
<b>TOTALS</b>	<b>1,663</b>	<b>31,401,032</b>

PART II - DEMOGRAPHIC DATA FOR MEMBERS TERMINATED WITH VESTING		
AGE	NUMBER	ANNUAL PROJECTED PENSION
Under 25		
25-29		
30-34		
35-39		
40-44	1	31,077
45-49	9	292,258
50-54		
55-59		
60-64		
65-69		
Over 69		
<b>TOTALS</b>	<b>10</b>	<b>323,335</b>



Part III - Distribution of Active Members by Age and Service

AGE		YEARS OF SERVICE											
		1	2	3	4-5	6-10	11-15	16-20	21-25	26-30	30+		
Under 20	No. of Members												
	Payroll (\$000)												
20-24	No. of Members												
	Payroll (\$000)												
25-29	No. of Members				34								
	Payroll (\$000)				2,006								
30-34	No. of Members				70	28	45	1					
	Payroll (\$000)				3,840	1,798	2,834	57					
35-39	No. of Members			1	21	32	147	29					
	Payroll (\$000)			58	1,195	1,969	9,241	1,829					
40-44	No. of Members				4	18	103	47	9				
	Payroll (\$000)				237	1,124	6,275	2,955	633				
45-49	No. of Members				6	9	41	32	32	11			
	Payroll (\$000)				351	570	2,487	2,141	2,232	812			
50-54	No. of Members				1	2	11	19	14	14			
	Payroll (\$000)				60	117	691	1,182	944	1,132			
55-59	No. of Members						6	4	3	3	2		
	Payroll (\$000)						358	231	207	237	156		
60-64	No. of Members					1	3	1					
	Payroll (\$000)					59	177	58					
65 & Over	No. of Members												
	Payroll (\$000)												
Total Members				1	136	90	356	133	58	28	2		
Total Annual Payroll				58	7,689	5,637	22,063	8,453	4,016	2,181	156		

INSTRUCTIONS: Print or type the requested information in the space provided. Round to the nearest dollar. Enter zero, if applicable. Refer to attachments or exhibits only to explain or support data entered on the schedule.

Section I - Statement of Net Assets Available for Benefits as of the Valuation Date

		Item No.
<b>A. Assets:</b>		
1. Cash .....	\$ 0	(1)
2. Accrued Interest and Dividends Receivable .....	\$ 0	(2)
3. Other Receivables (Specify)		
.....	\$ 0	(3)
.....	\$ 0	(4)
.....	\$ 0	(5)
4. Investments at Market Value (Specify)		
<u>ALLOCATION OF AGGREGATE TRUST</u> .....	\$ 117,821,971	(6)
.....	\$ 0	(7)
.....	\$ 0	(8)
.....	\$ 0	(9)
.....	\$ 0	(10)
5. Insurance/Annuity Cash Surrender Value (Individual Policies) .....	\$ 0	(11)
6. Other Assets (Specify)		
.....	\$ 0	(12)
.....	\$ 0	(13)
.....	\$ 0	(14)
<b>Total Assets</b> .....	<b>\$ 117,821,971</b>	<b>(15)</b>
<b>B. Current Liabilities:</b>		
1. Accounts Payable and Accrued Administrative Expenses .....	\$ 0	(16)
2. Other Current Liabilities (Specify)		
.....	\$ 0	(17)
.....	\$ 0	(18)
.....	\$ 0	(19)
<b>Total Current Liabilities</b> .....	<b>\$ 0</b>	<b>(20)</b>
<b>C. Net Assets Available for Benefits (Market Value) as of valuation date</b> .....	<b>\$ 117,821,971</b>	<b>(21)</b>

Section II - Statement of Revenues, Expenses and Change in Fund Assets for the Year Ended on the Valuation Date

	Item No.
A. Net Assets at Beginning of Year (Market Value) .....	\$ 118,668,758 (1)
B. Revenues:	
Member Contributions .....	\$ 3,306,730 (2)
Total Municipal Contributions .....	\$ 15,425,717 (3)
a. State Aid Portions \$ 6,096,378      b. Local Portion \$ 9,329,339	
Interest Earnings . ALLOCATED INVESTMENT EARNINGS .....	\$ 3,613,025 (4)
Dividend Income .....	\$ 0 (5)
Realized Capital Gains .....	\$ 0 (6)
Other Revenues or Credits (Specify)	
PASS THROUGH CONTRIBUTIONS .....	\$ 640,662 (7)
NET APPRECIATION .....	\$ 8,336,720 (8)
.....	\$ 0 (9)
Total Revenues .....	\$ 31,322,854 (10)
C. Expenses:	
Total Benefit Payments (Lump Sum) .....	\$ 0 (11)
Total Benefit Payments (Monthly) .....	\$ 30,267,526 (12)
Annuity Purchases (Lump Sum) .....	\$ 0 (13)
Insurance Premiums .....	\$ 0 (14)
Refund of Member Contributions .....	\$ 423,342 (15)
Administrative Expenses .....	\$ 838,111 (16)
Realized Capital Losses .....	\$ 0 (17)
Other Expenses or Debits (Specify)	
PASS THROUGH PAYMENTS .....	\$ 640,662 (18)
.....	\$ 0 (19)
Total Expenses .....	\$ 32,169,641 (20)
D. Net Change in Market Value of Assets (Unrealized Capital Gains or Losses) .....	\$ 0 (21)
E. Net Assets at End of Year (Market Value) .....	\$ 117,821,971 (22)

Section III - Presentation of the Determination of the Minimum Municipal Obligation (MMO) for Year Ended on Valuation Date

INSTRUCTIONS: Enter data reflecting the minimum municipal obligation developed in the fall of 2003 for the plan year beginning in 2004. [Section 302(C) of Act 205 of 1984.]

Special Note: If the MMO originally adopted for 2004 was modified under the provisions of Act 81 of 2004, enter data reflecting the modified 2004 MMO and check the box in Part A2.

	Item No.
A. IDENTIFICATION OF THE ACTUARIAL VALUATION REPORT (AVR) used to determine the 2004 financial requirements.	
1. Enter valuation date of the AVR (Must be in 2003 or an earlier year.)	<u>01</u> / <u>01</u> / <u>2002</u> (23 Mo. Da. Yr.)
2. If a valuation date in 2003 is entered in Part A1 above, the municipality submitted a revised 2003 actuarial valuation report pursuant to Act 81 of 2004, and the municipality modified its <u>2004</u> MMO based on the revised 2003 actuarial valuation report, check the following box.	<input type="checkbox"/>
B. DEVELOPMENT OF MINIMUM MUNICIPAL OBLIGATION under Section 302(c) of Act 205 of 1984. (Enter "N/A" if the asset value exceeded the present value of future benefits in the actuarial valuation report identified in Part A.)	
1. TOTAL ANNUAL PAYROLL projected for year ended on valuation date	\$ <u>48,660,682</u> (24
2. TOTAL NORMAL COST, expressed as a percentage of total annual payroll, derived from actuarial valuation report identified in item 23	<u>10.680</u> % (25
3. TOTAL PROJECTED NORMAL COST for year ended on valuation date (Item 24 x Item 25)	\$ <u>5,196,961</u> (26
4. TOTAL AMORTIZATION REQUIREMENT for year ended on valuation date <sup>1</sup>	\$ <u>11,909,294</u> (27
5. TOTAL ADMINISTRATIVE EXPENSES projected for year ended on valuation date	\$ <u>681,250</u> (28
6. TOTAL FINANCIAL REQUIREMENTS (Item 26 + 27 + 28)	\$ <u>17,787,505</u> (29
7. MEMBER CONTRIBUTIONS projected for year ended on valuation date	\$ <u>2,895,126</u> (30
8. FUNDING ADJUSTMENT determined pursuant to Section 302(c)(2) of Act 205 of 1984 for year ended on valuation date <sup>2</sup>	\$ <u>0</u> (31
9. MINIMUM MUNICIPAL OBLIGATION (MMO) for year ended on valuation date (Item 29 - 30 - 31)	\$ <u>14,892,379</u> (32
10. DELINQUENT MMO PLUS INTEREST from plan year beginning in 2003	\$ <u>0</u> (33
11. TOTAL MMO for year ended on valuation date (Item 32 + Item 33)	\$ <u>14,892,379</u> (34

<sup>1</sup> If the amount entered differs from the amount reported in the actuarial valuation report identified in item 23 above due to the scheduled termination of one or more amortization bases established pursuant to Chapter 2 of Act 205, attach an exhibit reconciling the difference.

<sup>2</sup> Funding adjustment is applicable where assets exceed actuarial accrued liability and is equal to 10% of the amount of the excess.

INSTRUCTIONS: Complete all items using the entry age normal actuarial cost method. Enter zero, if applicable, and round to the nearest dollar. Refer to attachments or exhibits only to explain or support data entered on the schedule.

Section I - Presentation of Actuarial Present Value of Future Benefits as of the Valuation Date

	Item No.
A. Actuarial Present Values for Active Members	
(Enter values for ancillary benefits only if valued using EAN.)	
1. Retirement Benefits .....	\$ 107,569,625 (1)
2. Disability Benefits .....	\$ 37,764,345 (2)
3. Survivor Benefits .....	\$ 0 (3)
4. Liability for the Refund of Member Contributions .....	\$ 1,683,788 (4)
5. Others (Specify) <u>PRE-RETIREMENT DEATH AND VESTED BENEFITS</u> .....	\$ 3,572,078 (5)
Subtotal for Active Members .....	\$ 150,589,836 (6)
B. Actuarial Present Values for Non-Active Members and Benefit Recipients	
1. Deferred Vested Benefits .....	\$ 3,069,094 (7)
2. Retirement Benefits .....	\$ 148,532,742 (8)
3. Disability Benefits .....	\$ 87,383,134 (9)
4. Survivor Benefits .....	\$ 24,823,285 (10)
5. Others (Specify) .....	\$ 0 (11)
Subtotal for Non-Active Members and Benefit Recipients .....	\$ 263,808,255 (12)
C. Total Actuarial Present Value of Future Benefits (Without adjustments) .....	\$ 414,398,091 (13)
D. Total Adjustments for Ancillary Benefits Valued through Approximation Techniques <sup>1</sup> .....	\$ 0 (14)
E. Total Actuarial Present Value of Future Benefits (Item 13 + Item 14) .....	\$ 414,398,091 (15)

<sup>1</sup> A signed statement and accompanying documentation, as specified in Section 203.5 of the Act 205 regulations, must be attached if adjustments are made.

**Section II - Unfunded Actuarial Accrued Liability and Amortization Contributions as of Valuation Date**

**Part A - Initial Unfunded Actuarial Accrued Liability.**

Amount of Initial Liability	Date Established	Years to Date	Original Amortization Period	Remaining Balance	2005 Dollar Amortization Contribution
\$ 131,617,548	1998	2037	40	\$ 155,927,353	\$ 7,746,181 (16)

**Part B - Changes in Unfunded Actuarial Accrued Liability since the last actuarial valuation report prepared and submitted under Act 205.**

Source	Amount of Liability	Date Established	Years to Date	Amortization Period	Amortization Contribution
Benefit Plan Modification	N/A	N/A	N/A	N/A	N/A
Actuarial Assumption Modification	(369,251)	2005	2024	20	(36,535)
Actuarial Losses (+) or Gains (-)	14,390,731 <sup>2</sup>	2005	2019	15	1,617,502
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A
Total	\$14,021,480	XXXXX	XXXXX	XXXXX	\$ 1,580,967 (17)

**Part C - Aggregation of Changes in Unfunded Actuarial Accrued Liability since initially established in 1985.**

Description	Remaining Balance of Aggregated Liability	Date of Aggregation	Years to Date	Amortization Period	Amortization Contribution
Aggregation of all prior changes (exclude changes in Section B)	\$ 65,708,360	2003	2021	17	\$ 6,974,575 (18)
Aggregation of all changes (include changes in Section B)	\$ 79,729,840	Current Valuation Date	2021	17	\$ 8,555,542 (19)

<sup>1</sup> Level percentage of future payroll amortization contribution should be entered where the municipality has previously implemented that amortization approach pursuant to Section 607 of Act 205.

<sup>2</sup> Attach exhibit of the actuarial valuation report showing development of expected unfunded actuarial accrued liability.

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Section III - Presentation of Actuarial Assumptions and Methods

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**A. Actuarial Assumptions**

- 1. Interest Rate - 8.75 percent increase per annum.
  
- 2. Salary Projection - 5.75 percent increase per annum.  
Merit and Longevity Increase: 2.25 percent increase per annum.  
Inflation: 3.5 percent increase per annum.
  
- 3. Disability Rates - See Appendix.
  
- 4. Termination Rates - See Appendix.
  
- 5. Mortality - Based on RP-2000 Mortality Tables with adjustments to reflect Pittsburgh Pension Plan mortality experience. See Appendix for more information.
  
- 6. Retirement Age - See Appendix.
  
- 7. Other (Specify) - \_\_\_\_\_
  
- 8. Other (Specify) - \_\_\_\_\_
  
- 9. Other (Specify) - \_\_\_\_\_

**B. Actuarial Cost Method (Specify) - Entry Age Normal Cost as specified by Act 205 of 1984.**

SCHEDULE C - Actuarial Data as of  
Page 4 of 4

JANUARY 1, 2005  
(Valuation Date)

CITY OF PITTSBURGH  
(Municipality)

ALLEGHENY  
(County)

**Section IV - Presentation of Benefit Plan Provisions**

**A. Eligibility Requirements**

Normal Retirement: Age 50 and the completion of 20 years of service.  
 Early Retirement: N/A.  
 Vesting: If a member completed 20 years of service, may collect normal retirement benefit based on average compensation at termination (providing the terminated member continues contributions at the rate in effect at termination).

**B. Retirement Benefit (Describe fully including Social Security offsets, service increments, etc. and include period over which final average salary is determined if benefit salary related.)**

A monthly benefit equal to 50 percent of average compensation (compensation averaged over the 36 month period prior to retirement for members hired after 1991; averaged over the 12 month period prior to retirement for members hired before 1992), plus an additional monthly benefit of \$20 for each completed year of service between 20 and 25 years, plus \$25 for each year of service in excess of 25 years.

**C. Survivor Benefit (Describe fully including indication of whether benefit is automatic or provided at the election of individual members.)**

Pre-Retirement: If so elected, spouse paid benefit equal to 50 percent of the pension the member would have received at date of death. If no election, accumulated contributions without interest paid to the beneficiary or estate.  
After Retirement: If so elected, spouse paid benefit equal to 50 percent of the pension the member was receiving. Upon the spouse's death or remarriage, the member's dependent children are entitled to receive a benefit equal to 25 percent of payments to the spouse until age 18.

**D. Disability Benefit (Describe fully including offset provisions, service requirements, extent of disability, etc.)**

Service Related: For total and permanent disablement, a monthly benefit equal 50 percent of the participant's earnings in the year prior to disablement.  
Non-Service Related: For total and permanent disablement after the completion of 10 years of service, a monthly benefit equal to 50 percent of the participant's earnings in the year prior to disablement.

**E. Post Retirement Adjustments (Describe fully including frequency of adjustment, basis for adjustment, minimum/maximum adjustments, etc.)**

None.

**F. Other Benefit (Specify and describe.)**

Vesting Benefit: If eligible, the Accrued Benefit at termination payable at age 50.

**G. Other Benefit (Specify and describe.)**

None.

**H. Member Contributions**

Amount or Rate: Participants will contribute 6.0 percent of their Compensation, plus \$1 per month. Members who elect the surviving spouse benefit contribute an additional 1/2 percent of compensation.  
 Interest Rate Credited to Member Contributions: 0.00 %



**Exhibit I**

**PERU** APR - 4 2006

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 1 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

**GENERAL INSTRUCTIONS:** This exhibit is to be completed only if the municipality is reporting the issuance of bonds (or notes, if applicable) to fund unfunded actuarial accrued liabilities under section 404 of Act 205 of 1984. The bond issue proceeds contributed to the pension plan are amortization contributions allocated under section 202(b)(4) of Act 205. The data requested in this exhibit is modified to reflect the funded status of the pension plan that would exist had the bond issue proceeds not been contributed to the pension plan. Print or type the data requested, rounded to the nearest dollar, in the space provided. Enter zero or negative values, if applicable. Do not leave blanks or refer to exhibits.

**NOTE:** Earnings on bond issue proceeds contributed to the pension fund are to be calculated proportionately, based on the ratio of borrowed assets to total assets at market value as of the valuation date occurring on or immediately following the date on which the borrowed assets were contributed.

**A. Summary of Modified Actuarial Data**

1. ACTUARIAL ACCRUED LIABILITY as of valuation date .....	\$	<u>353,479,164</u>	(E1)
(Enter amount reported in item 42 on page 4 of the reporting form.)			
2. TOTAL FUND ASSETS			
a. Market Value of Assets <sup>1</sup> .....	\$	<u>1,134,633</u>	(E2)
b. Actuarial Value of Assets reported in Item 2a above .....	\$	<u>1,134,633</u>	(E3)
3. UNFUNDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -) ...	\$	<u>352,344,531</u>	(E4)
(Item 1 minus Item 2b)			
4. AMORTIZATION CONTRIBUTIONS			
a. For amortization of initial unfunded actuarial accrued liability established 1/1/85. <sup>2</sup>			
1) Amortization period remaining (years) .....		<u>33</u>	(E5)
2) Amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date .....	\$	<u>14,773,769</u>	(E6)
3) Amortization contribution calculated as a level percentage of payroll for the plan year beginning on valuation date <sup>3</sup> .....	\$	<u>N/A</u>	(E7)
b. For amortization of all increases or decreases in unfunded actuarial accrued liability occurring after 1/1/85 or the initial UAL's establishment. <sup>2</sup>			
1) Aggregated amortization period (years) .....		<u>14</u>	(E8)
2) Aggregated amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date .....	\$	<u>6,394,445</u>	(E9)
c. Modified Total Amortization Requirement <sup>4</sup> .....	\$	<u>N/A</u>	(E10)
d. Total Amortization Requirement (Item E6 + E9 or Item E7 + E9 or Item E10, whichever is applicable) .....	\$	<u>21,168,213</u>	(E11)

<sup>1</sup>The value must equal the Total Fund Assets that would have existed had the bond issue proceeds not been contributed to the pension fund, as developed in Schedule II of this exhibit.

<sup>2</sup>Initial unfunded actuarial accrued liability may be established later than 1/1/85 if coincidental with the establishment of the pension plan or with the initiation of a new amortization schedule authorized by Act 82 of 1998.

<sup>3</sup>Enter N/A unless municipality has been certified to use level percentage of payroll amortization pursuant to Section 607 of Act 205.

<sup>4</sup>If the municipality has formally elected to apply the limit on the amortization contribution under section 202(b)(4), enter the modified total amortization requirement calculated as the amount required to amortize the unfunded actuarial accrued liability over ten years. Otherwise, enter N/A.

**EXHIBIT 1**

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 2 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

**INSTRUCTIONS:** A modified aggregated amortization period must be developed for each contribution to the pension fund comprised of bond issue proceeds. The modified aggregated amortization period will not change once it is calculated and reported in this exhibit. The modified aggregated amortization period is not used for funding purposes.

**B. Development of Modified Aggregated Amortization Period**

	Contribution Comprised of Bond Issue Proceeds <sup>1</sup>	Date of Contribution	Modified Aggregated Amortization Contribution Target Date <sup>2</sup> (MO/DA/YR)	Modified Aggregated Amortization Period Initially Established <sup>2</sup> (Years)	Modified Aggregated Amortization Period Remaining (Years)
1.	\$ 119,407,735	03/10/98	03/10/2037	40	33
2.	\$				
3.	\$				
4.	\$				
5.	\$				
6.	\$				
7.	\$				
8.	\$				
9.	\$				
10.	\$				

<sup>1</sup> Contributions to the pension plan shall consist of original bond issue proceeds used to fund unfunded actuarial accrued liability and shall not include refinancing of an amount previously borrowed.

<sup>2</sup> Determined under section 404 of Act 205 using the unfunded accrued liability and total amortization requirement shown in Part A of this exhibit and the plan's assumed rate of investment earnings. In the event that the period calculated is indeterminate or is in excess of 30 years, the amortization period initially established shall not exceed 30 years.

Commission Use Only	
I	7,694,788
P	471,000
Total \$	8,165,788

**Exhibit I**

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 3 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

**INSTRUCTIONS:** Provide unfunded actuarial accrued liability and amortization contributions as of valuation date developed under section 404 of Act 205. Bond issue proceeds used to fund unfunded actuarial accrued liabilities are not reflected in the data provided. Submission of the exhibits prepared in compliance with section 202(b)(3) of Act 205 may be required.

**Part C - Modified Unfunded Actuarial Accrued Liability and Amortization Contributions**

Initial Unfunded Actuarial Accrued Liability					
Amount of Initial Liability	Date Established	Target Date	Original Amortization Period	Remaining Balance	Level Dollar Amortization Contribution <sup>1</sup>
\$ 251,025,283	1998	2037	40	\$ 297,389,735	\$ 14,773,769 (E11)

Change in Unfunded Actuarial Accrued Liability Since the Last Actuarial Valuation Report Prepared and Submitted Under Act 205						
Source	Amount of Liability	Date Established	Target Date	Amortization Period	Amortization Contribution	
Benefit Plan Modification	N/A	N/A	N/A	N/A	N/A	
Actuarial Assumption Modification	(369,251)	2005	2024	20	(36,535)	
Actuarial Losses (+) or Gains (-)	32,464,355	2005	2019	15	3,648,958	
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A	
<b>Total</b>	<b>\$ 32,095,104</b>	<b>XXXXXXX</b>	<b>XXXXXXX</b>	<b>XXXXXXX</b>	<b>\$ 3,612,423</b>	<b>(E12)</b>

Aggregation of Changes in Unfunded Actuarial Accrued Liability Since Initially Established in 1983					
Description	Remaining Balance of Aggregated Liability	Date of Aggregation	Aggregated Target Date	Agg. Amortization Period	Aggregated Amortization Contribution
Aggregation of all prior changes (exclude changes in Section B)	\$ 22,859,692	2003	2017	13	2,782,022 (E13)
Aggregation of all changes (include changes in Section B)	\$ 54,954,796 <sup>2</sup>	Current Valuation Date	2018	14	\$ 6,394,445 (E14)

<sup>1</sup> Level percentage of future payroll amortization contribution should be entered where the municipality has previously implemented that amortization approach pursuant to Section 607 of Act 205.

<sup>2</sup> The sum of this item (aggregated balance of all changes in UAL) and the remaining balance of the initial liability must equal the amount in Exhibit I, Part A, Item E4.

**EXHIBIT 1**

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 4 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

**INSTRUCTIONS:** A separate Part D for debt service requirements is required for each instance where bond issue proceeds are contributed to the pension plan. If more than one Part D is required, please submit color coded copies or request additional originals from the Commission's office.

- NOTES:** 1) If the bond issue proceeds contributed to an individual pension plan were less than 100% of the total bond issue proceeds contributed, the total debt service requirements must be proportionately allocated among the individual pension plans based on the ratio of the bond issue proceeds contributed to each individual pension plan to the total bond issue proceeds contributed.
- 2) Debt service requirements determined and reported on this exhibit are not modified if refinancing occurs.

**D. Identification and Allocation of Total Debt Service Requirements for Debt Issued to Finance Pension Plan Contributions**

Date of Original Borrowing	Total Principal Amount Borrowed and Contributed to Pension Plans	Amount of Total Principal Contributed to this Pension Plan	Percentage of Total Debt Service Allocated to this Pension Plan	Date of Refinancing
<u>03/10/98</u>	<u>\$ 255,865,000.00</u>	<u>\$ 120,512,415.10</u>	<u>47.6 %</u>	<u>N/A</u>
	(A)	(B)	(B÷A)	

Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date
1. 1998	\$ -	\$ 3,921,658.75	\$ -	\$ 120,512,415.10
2. 1999	471,000.00	7,830,011.75	-	120,512,415.10
3. 2000	471,000.00	7,803,518.00	-	120,041,415.10
4. 2001	471,000.00	7,776,882.95	-	119,570,415.10
5. 2002	471,000.00	7,749,753.35	-	119,099,415.10
6. 2003	471,000.00	7,722,411.80	-	118,628,415.10
7. 2004	471,000.00	7,694,787.65	-	118,157,415.10
8. 2005	1,179,855.01	7,645,426.83	-	117,686,415.10
9. 2006	1,092,720.01	7,576,976.41	-	116,506,560.09
10. 2007	1,158,660.01	7,508,582.50	-	115,413,840.08
11. 2008	1,208,115.01	7,436,244.85	-	114,255,180.07
12. 2009	1,304,670.00	7,353,582.89	-	113,047,065.06
13. 2010	1,417,710.00	7,263,616.00	-	111,742,395.06
14. 2011	1,521,330.00	7,171,771.00	-	110,324,685.06
15. 2012	3,716,190.01	7,007,169.44	-	108,803,355.06
16. 2013	5,173,935.00	6,725,837.03	-	105,087,165.05
17. 2014	5,505,990.01	6,382,619.91	-	99,913,230.05
18. 2015	5,988,765.01	6,009,040.37	-	94,407,240.04
19. 2016	6,386,760.00	5,606,835.82	-	88,418,475.03
20. 2017	8,593,395.01	5,119,980.78	-	82,031,715.03

(Continue on additional pages, if necessary.)

(CONTINUED FROM PAGE 4 OF 6)

	Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date
1.	2018	\$ 6,233,685.01	\$ 4,638,100.67	\$ -	\$ 73,438,320.02
2.	2019	9,434,130.01	4,124,179.63	-	67,204,635.01
3.	2020	10,079,400.01	3,480,233.14	-	57,770,505.00
4.	2021	10,767,060.01	2,792,299.96	-	47,691,104.99
5.	2022	11,504,175.00	2,057,349.21	-	36,924,044.98
6.	2023	12,290,744.99	1,272,116.86	-	25,419,869.98
7.	2024	13,129,124.99	433,261.15	-	13,129,124.99
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

(Continue on additional pages, if necessary.)

**EXHIBIT I**

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 5 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

Schedule I

STATEMENT OF RECEIPTS AND DISBURSEMENTS  
 INCLUDING BOND ISSUE ASSETS  
 FOR THE PERIOD ENDING JANUARY 1, 2005

TOTAL FUND ASSETS AT JANUARY 1, 2003 <sup>1</sup> ..... \$ 106,340,161

RECEIPTS:

Employer Contributions .....	\$	<u>12,949,478</u>
Employee Contributions .....	\$	<u>6,904,344</u>
State Aid .....	\$	<u>15,957,702</u>
Supplemental State Assistance .....	\$	<u>0</u>
Investment Income .....	\$	<u>6,746,276</u>
Net Change in Market Value .....	\$	<u>28,978,652</u>
Other Receipts (Identify) .PASS THROUGH CONTRIBUTIONS .....	\$	<u>1,322,502</u>

TOTAL RECEIPTS ..... \$ 72,858,954

DISBURSEMENTS:

Monthly Benefit Payments .....	\$	<u>57,797,630</u>
Refund of Employee Contributions .....	\$	<u>630,366</u>
Administrative Expenses .....	\$	<u>1,626,646</u>
Other Disbursements (Identify) .PASS THROUGH PAYMENTS .....	\$	<u>1,322,502</u>

TOTAL DISBURSEMENTS ..... \$ 61,377,144

TOTAL FUND ASSETS AT JANUARY 1, 2005 <sup>2</sup> ..... \$ 117,821,971

<sup>1</sup>All filers should prepare this schedule for a two-year period. Value must equal Total Fund Assets at Market Value reported in Section V of the January 1, 2003, actuarial valuation reporting form if bonds were issued on or after that date. If bonds were issued prior to that date, the assets reported should be from Exhibit I of the January 1, 2003, actuarial valuation reporting form.

<sup>2</sup>Value must equal Total Fund Assets at market value reported in Section V of the current Act 205 actuarial valuation reporting form.

**Exhibit I**

Actuarial Data as of JANUARY 1, 2005. For: POLICEMEN'S of CITY OF PITTSBURGH in ALLEGHENY  
 Page 6 of 6 (Valuation Date) (Pension Plan) (Municipality) (County)

Schedule II

STATEMENT OF RECEIPTS AND DISBURSEMENTS  
 EXCLUDING BOND ISSUE ASSETS  
 FOR THE PERIOD ENDING JANUARY 1, 2005

TOTAL FUND ASSETS AT JANUARY 1, 2003 <sup>1</sup> .....	\$	<u>16,187,027</u>
RECEIPTS:		
Employer Contributions <sup>2</sup> .....	\$	<u>18,619,546</u>
Employee Contributions .....	\$	<u>6,904,344</u>
State Aid .....	\$	<u>15,957,702</u>
Supplemental State Assistance .....	\$	<u>0</u>
Investment Income <sup>3</sup> .....	\$	<u>525,107</u>
Net Change in Market Value <sup>4</sup> .....	\$	<u>2,950,397</u>
Other Receipts (Identify) <u>PASS THROUGH</u> <u>CONTRIBUTIONS</u> .....	\$	<u>1,322,502</u>
TOTAL RECEIPTS .....	\$	<u>46,279,598</u>
DISBURSEMENTS:		
Monthly Benefit Payments .....	\$	<u>57,797,630</u>
Refund of Employee Contributions .....	\$	<u>630,366</u>
Administrative Expenses <sup>5</sup> .....	\$	<u>1,581,494</u>
Other Disbursements (Identify) <u>PASS. THROUGH.</u> <u>PAYMENTS</u> .....	\$	<u>1,322,502</u>
TOTAL DISBURSEMENTS .....	\$	<u>61,331,992</u>
TOTAL FUND ASSETS AT JANUARY 1, 2005 <sup>6</sup> .....	\$	<u>1,134,633</u>

<sup>1</sup> All filers should prepare this schedule for a two-year period. Value must equal Total Fund Assets at Market Value reported in Section V of the January 1, 2003, actuarial valuation reporting form if bonds were issued on or after that date. If bonds were issued prior to that date, the assets reported should be from Exhibit I of the January 1, 2003, actuarial valuation reporting form.

<sup>2</sup> This amount includes hypothetical amortization contributions that would have been made had bond issue proceeds not been deposited.

<sup>3</sup> This amount does not include earnings on bond issue proceeds, but does include assumed interest earnings on hypothetical amortization contributions.

<sup>4</sup> This amount represents the proportionate change in market value attributable to assets excluding bond issue proceeds.

<sup>5</sup> Investment expenses attributable to bond issue proceeds should be excluded from this amount.

<sup>6</sup> Value must equal Total Fund Assets at market value reported in Exhibit I, Page 1, Item E2.

