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PC-202C
Commonwealth of Pennsylvania
Public Employee Retirement Commission
P.O. Box 1429
Harrisburg, PA 17105 - 1429

County: ALL Class : 2 -20

Mun : PITTSBURGH

Muncd : 02-261-2 FIntyp: F

RECEIPT PERC APR - 3 1998

1997
ACT 205 ACTUARIAL VALUATION REPORT:
FIRE PENSION PLAN
WITH DEFINED BENEFITS
FILING DEADLINE: March 31, 1998

FRMTYP	REVIEW	CODE	INPUT	EDP	LOG
C	<i>04/3/98</i>	I	B		B

4/14/98 C

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 (1)
(Check appropriate box below and enter corresponding number.)

- | | |
|--|--|
| <input type="checkbox"/> County (1) | <input type="checkbox"/> Township (1st) (4) |
| <input checked="" type="checkbox"/> City (2) | <input type="checkbox"/> Township (2nd) (5) |
| <input type="checkbox"/> Borough (3) | <input type="checkbox"/> Authority (6) |
| <input type="checkbox"/> Town (3) | <input type="checkbox"/> COG/Regional Entity (7) |

B. Name of Municipality 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 FIREMEN'S RELIEF AND PENSION FUND (4)

B. Date on which pension plan was established 05 / 25 / 1933 (5)
Mo. Da. Yr.

C. Valuation date for demographic, financial and actuarial data 01 / 01 / 1997 (6)
(Use 1/1/1997 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, 1997 (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 ... 826 (13)
2. Total annual payroll of active members on valuation date ... \$ 43,944,464 (14)
3. Number of members terminated with vested or deferred benefit on valuation date ... 2 (15)
4. As of valuation date, number of persons receiving:
a. Retirement benefits ... 441 (16)
b. Disability benefits ... 232 (17)
c. Surviving spouse benefits ... 367 (18)
d. Surviving child benefits ... 1 (19)
e. Total (a + b + c + d) ... 1,041 (20)
5. As of valuation date, total annual benefits payable as:
a. Retirement benefits ... \$ 7,095,617 (21)
b. Disability benefits ... \$ 3,307,669 (22)
c. Surviving spouse benefits ... \$ 1,750,680 (23)
d. Surviving child benefits ... \$ 2,821 (24)
e. Total (a + b + c + d) ... \$ 12,156,784 (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)

(Date)

(Name)

(Title)

(Telephone)

Section V - Financial Data as of JANUARY 1, 1997 (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	\$	<u>47,012,082</u>	(26)
2. CASH SURRENDER VALUE of individual insurance and annuity contracts on the above valuation date or nearest anniversary date	\$	<u>0</u>	(27)
3. TOTAL FUND ASSETS (1 + 2) on the above valuation date	\$	<u>47,012,082</u>	(28)
4. INVESTMENT INCOME, <i>excluding individual insurance and annuity contract dividends</i> , for the year ended on the above valuation date	\$	<u>4,145,049</u>	(29)
5. REALIZED CAPITAL GAINS/LOSSES for the year ended on the above valuation date (+ or -)	\$	<u>0</u>	(30)
6. DIVIDENDS ON INSURANCE/ANNUITY CONTRACTS for the year ended on the above valuation date	\$	<u>0</u>	(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.)	\$	<u>2,877,761</u>	(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)	\$	<u>13,195,684</u>	(33)
a. State Aid Portion \$ <u>4,820,587</u> b. Local Portion \$ <u>8,375,097</u>			
9. ACTUAL MUNICIPAL DEPOSIT for the year ended on the valuation date (Item 33 + 9a - 9b)	\$	<u>13,195,684</u>	(34)
a. Contributions Receivable at beginning of year \$ <u>0</u> b. Contributions Receivable at end of year \$ <u>0</u>			
10. TOTAL MONTHLY BENEFIT PAYMENTS for the year ended on the above valuation date	\$	<u>12,808,393</u>	(35)
11. ANNUAL INSURANCE OR ANNUITY PREMIUM PAYMENTS, <i>excluding single premium annuity purchases</i> , for the year ended on the above valuation date	\$	<u>0</u>	(36)
12. ADMINISTRATIVE EXPENSES paid from the assets of the pension plan for the year ended on the above valuation date	\$	<u>452,742</u>	(37 b)
13. MINIMUM MUNICIPAL OBLIGATION to the pension plan for the year ended on the valuation date (Enter amount reported in item 34 or item 41 on page 12.)	\$	<u>12,749,230</u>	(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)

(Date)

(Name)

(Title)

(Telephone)

[Handwritten Signature]

3/31/98

Paul Henning

Director of Finance

(412) 255-2582

) Includes \$151,765 in expenses paid by the Plan and \$300,977 in expenses paid by the

Section VI - Actuarial Data as of JANUARY 1, 1997 (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	\$	<u>244,927,604</u>	(40)
2. ACTUARIAL PRESENT VALUE OF FUTURE NORMAL COST as of valuation date	\$	<u>42,748,341</u>	(41)
3. ACTUARIAL ACCRUED LIABILITY as of valuation date	\$	<u>202,179,253</u>	(42)
4. ACTUARIAL VALUE OF ASSETS, including aggregate insurance/annuity cash surrender value, as of valuation date	\$	<u>47,012,082</u>	(43)
5. UNFUNDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -)	\$	<u>155,167,181</u>	(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	\$	<u>4,570,788</u>	(45)
b. As a percentage of total annual payroll		<u>10.401</u>	%(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 ¹	\$	<u>439,445</u>	(47)
8. ANNUAL COVERED PAYROLL of active members as of valuation date	\$	<u>43,944,464</u>	(48)
9. AMORTIZATION CONTRIBUTIONS			
a. For amortization of initial unfunded actuarial accrued liability established 1/1/85. ²			
1) Amortization period remaining (years)		<u>28</u>	(49)
2) Amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date	\$	<u>12,444,904</u>	(50)
3) Amortization contribution calculated as a level percentage of payroll for the plan year beginning on valuation date ³	\$	<u>9,992,163</u>	(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. ²			
1) Aggregated amortization period (years)		<u>N/A</u>	(52)
2) Aggregated amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date	\$	<u>(60,323)</u>	(53)
c. Total Amortization Requirement (Item 50 + 53 or Item 51 + 53, whichever is applicable)	\$	<u>9,931,840</u>	(54)
10. ACTUAL OR ESTIMATED MEMBER CONTRIBUTIONS to the pension plan for the year beginning on the valuation date	\$	<u>2,646,580</u>	(55)

* Mark A. Long 86-4258

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	\$ _____	(56)
12. ADJUSTED ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS as of valuation date (1 - 11)	\$ _____	(57)
13. ADJUSTED ACTUARIAL PRESENT VALUE OF FUTURE NORMAL COST as of valuation date	\$ _____	(58)
14. ADJUSTED ACTUARIAL ACCRUED LIABILITY as of valuation date	\$ _____	(59)
15. ACTUARIAL VALUE OF ASSETS, excluding aggregate insurance/annuity cash surrender value, as of valuation date	\$ _____	(60)
16. ADJUSTED UNFUNDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -)	\$ _____	(61)
17. ADJUSTED NORMAL COST, excluding administrative expenses, payable as of valuation date for the plan year beginning on valuation date	\$ _____	(62)
18. ANNUAL INSURANCE/ANNUITY PREMIUM PAYMENTS for the plan year beginning on valuation date	\$ _____	(63)
19. GROSS ADJUSTED NORMAL COST for the plan year beginning on valuation date (17 + 18):		
a. As a dollar amount	\$ _____	(64)
b. As a percentage of payroll	_____ %	(65)
20. ADJUSTED AMORTIZATION CONTRIBUTION calculated as a level dollar amount for the plan year beginning on valuation date	\$ _____	(66)

¹ 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.

² Initial unfunded actuarial accrued liability may be established later than 1/1/1985 if coincidental with establishment of pension plan.

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

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 % (67)
- b. Salary projection 5.75 % (68)

2. ADMINISTRATIVE ARRANGEMENT (Enter corresponding number.) 1 (69)

- | | | | |
|----------------------------|--|----------------------------|--|
| <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 \$ 7,333 (7)

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.)

a member of the American Academy of Actuaries enrolled in 19 79 .

an enrolled actuary pursuant to the Employee Retirement Income Security Act of 1974, No. 96-344

G. Herbert Loomis
(Signature)

3/5/98
(Date)

G. HERBERT LOOMIS
(Name)

(412) 394-9660 (71)
(Telephone)

MOCKENHAUPT ASSOCIATES
(Name of Firm)

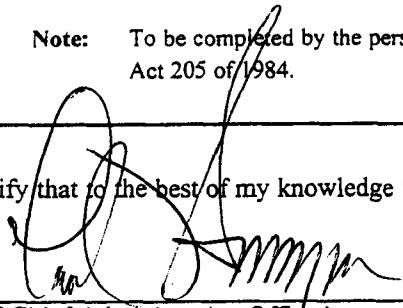
(72)

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 at the address indicated on page one of the reporting form. *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)

3/31/98
(Date)

Paul Hennigan
(Name of Chief Administrative Officer) (Print or type)

(412) 255-2582
(Telephone)

SCHEDULE A - Demographic Data as of JANUARY 1

, 1997 PITTSBURGH

ALLEGHENY

Page 1 of 2

(Valuation Date)

(Municipality)

(County)

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	2	24,989
30-34		
35-39	3	38,647
40-44	13	185,820
45-49	31	500,919
50-54	36	577,106
55-59	66	1,101,063
60-64	98	1,480,904
65-69	245	3,478,581
70-74	230	2,618,296
75-79	141	1,149,621
80-84	105	667,014
Over 84	71	333,824
TOTALS	1041	12,156,784

PART II - DEMOGRAPHIC DATA FOR MEMBERS TERMINATED WITH VESTING		
AGE	NUMBER	ANNUAL PROJECTED PENSION
Under 25		
25-29		
30-34		
35-39		
40-44		
45-49		
50-54	2	38,203
55-59		
60-64		
65-69		
Over 69		
TOTALS		

SCHEDULE A - Demographic Data as of JANUARY 1, 1997 PITTSBURGH ALLEGHENY
 Page 2 of 2 (Valuation Date) (Municipality) (County)

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	0	0	0	0	0	0	0	0	0	0
	Payroll (\$000)	0	0	0	0	0	0	0	0	0	0
20-24	No. of Members	1	0	0	0	0	0	0	0	0	0
	Payroll (\$000)	33	0	0	0	0	0	0	0	0	0
25-29	No. of Members	10	5	12	0	1	0	0	0	0	0
	Payroll (\$000)	375	207	562	0	41	0	0	0	0	0
30-34	No. of Members	7	7	17	0	19	0	0	0	0	0
	Payroll (\$000)	251	290	821	0	930	0	0	0	0	0
35-39	No. of Members	3	4	13	0	43	25	12	0	0	0
	Payroll (\$000)	110	170	618	0	2234	1366	671	0	0	0
40-44	No. of Members	0	1	10	0	49	31	77	21	0	0
	Payroll (\$000)	0	46	467	0	2484	1609	4033	1129	0	0
45-49	No. of Members	0	0	3	0	34	24	72	107	0	0
	Payroll (\$000)	0	0	128	0	1732	1283	3700	5896	0	0
50-54	No. of Members	0	1	3	0	9	5	20	51	19	0
	Payroll (\$000)	0	34	154	0	485	264	1058	2809	1107	0
55-59	No. of Members	0	0	1	0	3	1	4	20	29	17
	Payroll (\$000)	0	0	49	0	123	50	193	1090	1654	982
60-64	No. of Members	0	0	0	0	0	0	2	3	11	15
	Payroll (\$000)	0	0	0	0	0	0	94	173	596	900
65 & Over	No. of Members	0	0	0	0	0	0	0	0	1	3
	Payroll (\$000)	0	0	0	0	0	0	0	0	53	162
TOTAL MEMBERS		21	18	59	0	158	86	187	202	60	35
TOTAL ANNUAL PAYROLL		770	747	2798	0	8028	4572	9749	11098	3410	2044

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.
A. Assets:	
1. Cash	\$ _____ (1)
2. Accrued Interest and Dividends Receivable	\$ _____ (2)
3. Other Receivables (Specify)	
_____	\$ _____ (3)
_____	\$ _____ (4)
_____	\$ _____ (5)
4. Investments at Market Value (Specify)	
<u>PARTICIPATION IN AGGREGATE TRUST</u>	\$ <u>47,012,082</u> (6)
_____	\$ _____ (7)
_____	\$ _____ (8)
_____	\$ _____ (9)
_____	\$ _____ (10)
5. Insurance/Annuity Cash Surrender Value (Individual Policies)	\$ _____ (11)
6. Other Assets (Specify)	
_____	\$ _____ (12)
_____	\$ _____ (13)
_____	\$ _____ (14)
Total Assets	\$ <u>47,012,082</u> (15)
B. Current Liabilities:	
1. Accounts Payable and Accrued Administrative Expenses	\$ _____ (16)
2. Other Current Liabilities (Specify)	
_____	\$ _____ (17)
_____	\$ _____ (18)
_____	\$ _____ (19)
Total Current Liabilities	\$ _____ (20)
C. Net Assets Available for Benefits (Market Value) as of valuation date	\$ <u>47,012,082</u> (21)

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)	\$ <u>39,170,508</u> (1)
B. Revenues:	
Member Contributions	\$ <u>2,877,761</u> (2)
Total Municipal Contributions	\$ <u>13,195,684</u> (3)
a. State Aid Portion \$ <u>4,820,587</u> b. Local Portion \$ <u>8,375,097</u>	
Supplemental State Assistance Grant	\$ <u>356,726</u> (4)
Interest Earnings	\$ _____ (5)
Dividend Income	\$ _____ (6)
Realized Capital Gains	\$ _____ (7)
Other Revenues or Credits (Specify)	
<u>CITY REIMBURSEMENTS</u>	\$ <u>573,800</u> (8)
<u>ALLOCATED INVESTMENT EARNINGS AND MISC. INCOME</u>	\$ <u>4,145,389</u> (9)
Total Revenues	\$ <u>21,149,360</u> (10)
C. Expenses:	
Total Benefit Payments (Lump Sum)	\$ _____ (11)
Total Benefit Payments (Monthly)	\$ <u>12,808,393</u> (12)
Annuity Purchases (Lump Sum)	\$ _____ (13)
Insurance Premiums	\$ _____ (14)
Refund of Member Contributions	\$ <u>46,651</u> (15)
Administrative Expenses	\$ <u>452,742</u> (16)
Realized Capital Losses	\$ _____ (17)
Other Expenses or Debits (Specify)	
_____	\$ _____ (18)
_____	\$ _____ (19)
Total Expenses	\$ <u>13,307,786</u> (20)
D. Net Change in Market Value of Assets (Unrealized Capital Gains or Losses)	\$ <u>0</u> (21)
E. Net Assets at End of Year (Market Value)	\$ <u>47,012,082</u> (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 1995 for the plan year beginning in 1996.
 [Section 302(C) of Act 205 of 1984.]

	Item No.
A. IDENTIFICATION OF THE ACTUARIAL VALUATION REPORT used to determine funding requirement (Enter valuation date used in 1995 or earlier year.)	01 / 01 / 1995 (23)
	Mo. Da. Yr.
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	\$ 47,631,376 (24)
2. TOTAL NORMAL COST, expressed as a percentage of total annual payroll, derived from actuarial valuation report identified in item 23	10.456% (25)
3. TOTAL PROJECTED NORMAL COST for year ended on valuation date (Item 24 x Item 25)	\$ 4,980,337 (26)
4. TOTAL AMORTIZATION REQUIREMENT for year ended on valuation date	\$ 10,458,136 (27)
5. TOTAL ADMINISTRATIVE EXPENSES projected for year ended on valuation date	\$ 428,682 (28)
6. TOTAL FINANCIAL REQUIREMENTS (Item 26 + 27 + 28)	\$ 15,867,155 (29)
7. MEMBER CONTRIBUTIONS projected for year ended on valuation date	\$ 3,117,925 (30)
8. FUNDING ADJUSTMENT determined pursuant to Section 302(c)(2) of Act 205 of 1984 for year ended on valuation date ¹	\$ 0 (31)
9. MINIMUM MUNICIPAL OBLIGATION (MMO) for year ended on valuation date (Item 29 - 30 - 31)	\$ 12,749,230 (32)
10. DELINQUENT MMO PLUS INTEREST from plan year beginning in 1995	\$ 0 (33)
11. TOTAL MMO for year ended on valuation date (Item 32 + Item 33)	\$ 12,749,230 (34)
C. DEVELOPMENT OF PRE-AUTHORIZED ADJUSTMENT TO MINIMUM MUNICIPAL OBLIGATION under Section 605 or 607 of Act 205 of 1984. ²	
1. TOTAL MUNICIPAL CONTRIBUTION to the pension plan for the plan year beginning in 1995 (Not less than adjusted MMO for applicable year.)	\$ _____ (35)
2. AMOUNT OF DIFFERENCE (Item 32 - Item 35) (Must be positive value.)	\$ _____ (36)
3. ADJUSTMENT FACTOR APPLICABLE	_____ % (37)
4. ADJUSTMENT AMOUNT (Item 36 x Item 37)	\$ _____ (38)
5. ADJUSTED MMO for the year ended on valuation date (Item 35 + Item 38)	\$ _____ (39)
6. DELINQUENT MMO PLUS INTEREST from plan year beginning in 1995	\$ _____ (40)
7. TOTAL ADJUSTED MMO for year ended on valuation date (Item 39 + Item 40)	\$ _____ (41)

¹ Funding adjustment is applicable where assets exceed actuarial accrued liability and is equal to 10% of the amount of the excess.

² Complete Part C only if municipality was certified under the Act 205 Distressed Municipal Pension System Recovery Program.

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	\$ <u>118,475,922</u> (1)
2. Disability Benefits	\$ <u>23,815,694</u> (2)
3. Survivor Benefits	\$ <u>4,671,677</u> (3) d
4. Liability for the Refund of Member Contributions	\$ <u>903,523</u> (4)
5. Others (Specify) <u>VESTING</u>	\$ <u>230,616</u> (5)
Subtotal for Active Members	\$ <u>148,097,432</u> (6)
B. Actuarial Present Values for Non-Active Members and Benefit Recipients	
1. Deferred Vested Benefits	\$ <u>330,828</u> (7)
2. Retirement Benefits	\$ <u>57,568,256</u> (8)
3. Disability Benefits	\$ <u>25,684,707</u> (9)
4. Survivor Benefits	\$ <u>13,246,381</u> (10)
5. Others (Specify) _____	\$ <u>0</u> (11)
Subtotal for Non-Active Members and Benefit Recipients	\$ <u>96,830,172</u> (12)
C. Total Actuarial Present Value of Future Benefits (Without adjustments)	\$ <u>244,927,604</u> (13)
D. Total Adjustments for Ancillary Benefits Valued through Approximation Techniques ¹	\$ <u>0</u> (14)
E. Total Actuarial Present Value of Future Benefits (Item 13 + Item 14)	\$ <u>244,927,604</u> (15)

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

d) Both pre-retirement and post-retirement benefits for active employees.

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	Target Date	Original Amortization Period	Remaining Balance	Level Dollar Amortization Contribution ¹
\$ 121,147,562	1985	2024	40	\$163,257,693	\$ 9,992,163 (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	Target Date	Amortization Period	Amortization Contribution
Benefit Plan Modification					
Actuarial Assumption Modification					
Actuarial Losses (+) or Gains (-) ²	- 227,589	1997	2011	15	- 25,581
Post-Retirement Adjustments					
Total	\$ - 227,589	XXXXXX	XXXXXX	XXXXXX	\$ - 25,581 (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	Aggregated Target Date	Agg. Amortization Period	Aggregated Amortization Contribution
Aggregation of all prior changes (exclude changes in Section B)	\$ - 7,862,923	1995	N/A	N/A e)	\$ - 34,742 (18)
Aggregation of all changes (include changes in Section B)	\$ - 8,090,512	Current Valuation Date	N/A	N/A e)	\$ - 60,323 (19)

¹ 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.

² Attach exhibit of the actuarial valuation report showing development of expected unfunded actuarial accrued liability.

e) The aggregate amortization amounts are less than interest on the aggregate balances. Therefore, the amortization period is 14

Summary of Plan Provisions

Plan Year	<input type="checkbox"/> Twelve- month period beginning January 1 and ending December 31
Plan Established	<input type="checkbox"/> May 25, 1933
Principal Definitions	
<i>Employee</i>	<input type="checkbox"/> Any uniformed employee of the City of Pittsburgh Bureau of Fire
<i>Retirement Benefit Commencement Date</i>	<input type="checkbox"/> Assumed to be the first day of the month coincident with or next following eligibility for and election to retire
<i>Service Increment</i>	<input type="checkbox"/> Additional monthly benefit of \$20 for each completed year of service in excess of 20 years, excluding years of service after age 65
<i>Service</i>	<input type="checkbox"/> Completed years of service calculated from date of hire through date of retirement or severance, plus periods of service purchased
<i>Normal Form of Payment</i>	<input type="checkbox"/> Monthly pension benefit payable for life
Participation Requirements	
<i>Entry date</i>	<input type="checkbox"/> Date of hire
Compensation	<input type="checkbox"/> Total W-2 wages, excluding longevity pay
<i>Average Compensation</i>	<input type="checkbox"/> Compensation averaged over the 36-month period prior to retirement or severance
Normal Retirement	
<i>Eligibility</i>	<input type="checkbox"/> Later of age 50 <i>or</i> <input type="checkbox"/> Completion of 20 years of service
<i>Members hired before January 1, 1976</i>	<input type="checkbox"/> Completion of 20 years of service
<i>Monthly Benefit</i>	<input type="checkbox"/> Equal to 50% of average compensation plus service increment, if any
Late Retirement	
<i>Eligibility</i>	<input type="checkbox"/> Employment beyond normal retirement
<i>Amount of Benefit</i>	<input type="checkbox"/> Normal retirement benefit based upon average compensation as calculated at actual retirement

Disability
Eligibility

- Permanent disablement in line of duty *or*
- Permanent disablement (not in line of duty) after completing 10 years of service

Benefit Amount

- 50% of earnings in year prior to disablement

Benefit Commencement Date

- First day of calendar month following determination of disablement *and*
- Continuing for the duration of disability prior to normal retirement date and life thereafter

Vesting

- If member completed 20 years of service, may collect normal retirement benefit based on average compensation at termination (providing terminated member continues contributions at rate in effect at termination)
- Benefit deferred to age 50

Death Benefits

Accidental Death

(Spouse/children/or dependent parents if no spouse)

- Benefit plus return of member's accumulated contributions
- Benefit plus workers' compensation or other payments is equal to 50% of member's wages at death
- Payable for 500 weeks or until surviving spouse dies or remarries
- If no surviving spouse or unmarried children, dependent parents receive payments

- *Children Benefits*

(No surviving spouse/or discontinued payment to surviving spouse)

- Unmarried child under age 18 receives payments equal to 25% of payments to spouse
- Total payments to one family may not exceed 50% of member's wages at time of death
- \$60 minimum monthly payment if only one child
- If maximum amount payable, divide equally among entitled children
- Payments terminate when child reaches age 18, dies, marries
- Payments may continue indefinitely to incompetent child

Death Prior to Retirement
Active service/not accidental

- If so elected, spouse paid benefit equal to 50% of pension member would have received if retired on date of death
- No election, accumulated contributions without interest paid to beneficiary or estate
- If so elected, spouse paid benefit equal to 50% of pension member was receiving
- No surviving spouse, benefit may be paid to surviving children or dependent parents

Death After Retirement

- *Lump Sum Benefit*

- Lump sum of \$1,200 to beneficiary of any deceased member

Employee Contributions

- 6% percent of compensation plus \$1 per month
- \$1 per month ceases at age 65
- If surviving spouse benefit elected, add 1/2 percent of compensation

Actuarial Basis of Valuation

Actuarial Assumptions: January 1, 1997

Economic

- Interest Rate 8.75 percent increase per annum
- Salary Projection 5.75 percent increase per annum

Employee Characteristics

- Mortality
 - Healthy: UP-1984 Table, with female ages set back five years
 - Disabled: UP-1984 Table, with male ages set forward seven years and female ages set forward two years
- Withdrawal Sample rates:

Age	Rate
20	0.68%
25	0.66%
30	0.63%
35	0.59%
40	0.44%
45	0.22%
50	0.05%
55	0.00%

- Disablement

Sample rates:

Age	Male	Female
30	0.16%	0.20%
40	0.37%	0.72%
50	1.13%	1.44%
60	3.38%	2.59%

- Retirement Age

Active members are assumed to retire one year after the average age of (a) age 50 with 20 years of service, or attained age, if later and (b) age 62 with 20 years of service. Members who have attained age 64 with 20 years of service are assumed to retire immediately.
 - Duty Related Mortality

Twenty percent of deaths in active service are assumed to be duty related.
 - Percentage Married

Eighty percent of male participants and 65 percent of female participants
 - Spouse Age

Female spouse assumed to be two years younger than male spouse.
- Other**
- Administrative Expenses

0.9 percent of payroll