e s	C	ounty: A	1LL		Class	: 2 (
PC-201C	CI					
Commonwealth of Pennsylvania Public Employee Retirement Commission	M	un : F	ITTSBU	7GH		
P.O. Box 1429	I M					-
Harrisburg, PA 17105 - 1429				-	F11 4	F
1999	I'I	uncd : 0			Finty): F
ACT 205 ACTUARIAL VALUATION REPORT:	RECEIPT	PER	C MAR	3 1 2000		
POLICE PENSION PLAN						
WITH DEFINED BENEFITS			<u> </u>			
	FRMTYP	REVIEW	CODE	INPUT	EDP	LOG
FILING DEADLINE: March 31. 2000	С	03/11/00		13		B
Section I - Identification of Municipality						
INSTRUCTIONS: Print or type requested information in the space pr	ovided.					
Note: In Part A, home rule municipalities should	d check the box	and enter the	number of the	eir previous m	unicipal class	ification.
						Item No.
A. Type of Municipality			•••••	······	2	(1
(Check appropriate box below and enter corresponding numbe	r.)					
County (1)] Township	(1st)	(4)		
$\overline{\mathbf{X}}$ City (2)		Township	(2nd)	(5)		
Borough (3)		Authority		(6)		
☐ Town (3)		COG/Regi	onal Entity	(7)		
B. Name of MunicipalityCITY_OF_PITTSBURGH						(2
C. Name of CountyALLEGHENY			-			(3
Section II - Identification of Pension Plan and Specification of	Valuation D	ate				
INSTRUCTIONS: Print or type requested information in space provi	ided.	•				
A. Name of Pension PlanCITY_OF_PITTSBURGH_P	OLICEMEN'	S RELIEF	AND PENS	ION FUND		(4
				-		
B. Date on which pension plan was established			••••••		/ 01 /1	`
				Mo	o. Da.	Yr.
C. Valuation date for demographic, financial and actuarial of						`
(Use 1/1/1999 unless otherwise specified in plan document price	or to 12/31/198	2.)		Mo	o. Da.	Yr.
					4	

Section	III - General Information		
INSTRL	ICTIONS: Respond to each question by entering "yes" or "no" in the space provided.		
Α.	Is Social Security coverage provided for the active members of the pension plan identified in		
	Section II?	NO	(8
ъ	Do any active members of the pension plan identified in Section II participate in any other		
ъ.	pension plan or plans that receive funding from the municipality?	. <u>NO</u>	(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
•	less than 35 hours per week?	•	(10
D.		NO	
	the municipality identified in Section I?	. <u>NO</u>	(11
E.	Do retired members of the pension plan identified in Section II receive any benefit, such as		
۵.	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, 1999 (Valuation Date)		
INSTRU	JCTIONS: Enter valuation date specified in Section II, Part C, in the space provided above and on each page of information requested in Part A in the space provided. Enter zero, if applicable. <u>Do not leave bla</u>	of Schedule A. Print o	r type hedules
	or exhibits. Complete Schedule A. Then complete the certification in Part B below.		
	Community of David Strategic Patrick		
<u>A.</u>	Summary of Demographic Data		
	1. Number of active members on valuation date		(13
	2. Total annual payroll of active members on valuation date		(14
	3. Number of members terminated with vested or deferred benefit on valuation date	·I	(15
	4. As of valuation date, number of persons receiving:	700	(1.6
	a. Retirement benefits		(16
	b. Disability benefits		(17
	c. Surviving spouse benefits	^	(18 (19
	d. Surviving child benefits	•	(20
	e. Total (a + b + c + d)		(20
		s 16,240,874	(21
	a. Retirement benefitsb. Disability benefits	\$ 5,122,968	(22
	c. Surviving spouse benefits		(23
	d. Surviving child benefits		(24
	e. Total (a + b + c + d)		(25
В.	Certification of Demographic Data		
I h	ereby certify that I have prepared and reviewed the demographic data entered in Part A of this section and	in Schedule A; and I	further
	tify that the information provided is to the best of my knowledge true and accurate.	•	
_	1	1,	
	In Mitem	March V4	, 4000
(Si	gnature) The M. Mc(EAN FINANCE DIRECTOR (Title)	(Date)	
1		1/	
\subseteq	HEN M. MCEAN FINANCE DIRECTOR	(41x) 755-	~58~
(N	ame) (Title)	(Telephone)	·

Section V - Financial Data as of			
INSTRUCTIONS: Enter valuation date specified in Section II, Part C, in the space provided above and on each part data requested in Part A, rounded to the nearest dollar, in the space provided. Enter zero, if ap 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 a regardless of custodial arrangements involving administrative agencies.	ll the a	ssets of the pension p	olan
A. Summary of Financial Data			
1. MARKET VALUE OF ASSETS, excluding the cash surrender values of individual insurance and annuity contracts, on the above valuation date	\$	160,107,628	_ (26
CASH SURRENDER VALUE of individual insurance and annuity contracts on the above valuation date or nearest anniversary date	\$.	0	(27
TOTAL FUND ASSETS (1 + 2) on the above valuation date	\$	160,107,628	_ (28
4. INVESTMENT INCOME, excluding individual insurance and annuity contract dividends, for the year ended on the above valuation date	\$ _	13,877,508	_ (29
5. REALIZED CAPITAL GAINS/LOSSES for the year ended on the above valuation date (+ or -)	\$_	0	_ (30
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.)	\$ _	3,216,309	_ (32
8. MUNICIPAL CONTRIBUTIONS to plan, excluding Supplemental State Assistance monies allocated under Act 205 Recovery Program, for the year ended on valuation date (8a + 8b) a. State Aid Portion \$7,250,913 b. Local Portion \$2,475,660	\$_	9,726,573	_ (33
9. ACTUAL MUNICIPAL DEPOSIT for the year ended on the valuation date (Item 33 + 9a - 9b)	\$_	79,726,573	_ (34
10. TOTAL MONTHLY BENEFIT PAYMENTS for the year ended on the above valuation date	\$_	25,138,179	_ (35
11. ANNUAL INSURANCE OR ANNUITY PREMIUM PAYMENTS, excluding single premium annuity purchases, 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	\$_	784,712	_ (37
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.)	\$ _	9,726,573	_ (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 a certify that the information provided is to the best of my knowledge true and accurate.	nd in	Schedule B; and I	further
Leh Mi tem	N	lach ry,	V000
(Signature)	/ (Ī	Date)	
(Signature) Ellen M. Mc (EAN FINANCE DIRECTOR (Title)	(⁴ (1	Hry 755-75 elephone)	-82

ection VI	- Actı	ıarial Data as of	JANUARY 1	, 1999 (Valuation Date)	
STRUCTI	ONS:			in the space provided above and on each pons provided. Complete Schedule C. Then	
			alues provided in Part A of this involving administrative ag	s section must include all the assets of the pencies.	pension plan regardless of custodial
A. Su	mmary	of Actuarial Data			
STRUCTIO	ONS:	Print or type the data re Do not leave blanks o	-	t dollar, in the space provided. Enter zero or	r negative values, if applicable.
1.	ACT	UARIAL PRESENT	VALUE OF FUTURE BEN	NEFITS as of valuation date	\$ <u>358,257,237</u> (40
2.	ACT	UARIAL PRESENT	VALUE OF FUTURE NO	RMAL COST as of valuation date	\$ 65,576,499 (41
3.	ACT	UARIAL ACCRUED	LIABILITY as of valuatio	n date	\$ 292,680,738 (42
4.	ACT cash	UARIAL VALUE OF surrender value, as of	F ASSETS, including aggre	gate insurance/annuity	\$ 160,107,628 (43
5.	UNF	UNDED ACTUARIA	L ACCRUED LIABILITY	as of valuation date (+ or -)	\$ 132,573,110 (44
6.			er & employee), excluding the for the plan year beginning		
					, ,
					10.648_%(46
7.	AVE of the	RAGE ADMINISTRATE PROPERTY IN THE PROPERTY IN	ATIVE EXPENSES payable prior plan year and the plan	e from the assets year beginning on valuation date '	\$ 605,390 (47
8.	ANN	UAL COVERED PA	YROLL of active members	as of valuation date	\$ 55,035,425 (48
9.		RTIZATION CONTI			
	a. F) Amortization of initial ()	od remaining (years)	rued liability established 1/1/85. ²	39 (49
	2) Amortization cont plan year beginning	ribution calculated as a leveng on valuation date	el dollar amount for the	\$7,746,181(50
¥	. 3) Amortization cont plan year beginning	ribution calculated as a leveng on valuation date 3	el percentage of payroll for the	\$N/A(51
	li	ability occurring after	increases or decreases in ur 1/1/85 or the initial UAL's ization period (years)	nfunded actuarial accrued sestablishment. 2	21 (52
	2) Aggregated amorti plan year beginnir	ization contribution calcularing on valuation date	ted as a level dollar amount for the	\$(53
	c. M	fodified Total Amorti	ization Requirement 4		\$ <u>N/A</u> (54
	d. T	otal Amortization Red hichever is applicable).	quirement (Item 50 + 53 or I	tem 51 + 53 or Item 54,	\$ 7,546,272 (55
	A CUTT	IAI OB POTTA A TEN	D MEMBER CONTRIBUT		

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)

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

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.

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.

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

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 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 con	mplete, true and accurate.
Marad S/AX	3-24-00
(Signature of Chief Administrative Officer)	(Date)
Thomas Cox Executive Secretary (Name of Chief Administrative Officer) (Print or type)	(4/2) 255-2694 (Telephone)

SCHEDULE A - Page 1 of 2	Demographic Data as of	JANUARY 1 (Valuation Date)	, 1999	CITY OF PITTSBURGH (Municipality)	ALLEGHENY (County)
INSTRUCTIONS:	Print or type the requested infor exhibits only to explain or supp			er zero if applicable. Refer to attac	hments or

AGE	NUMBER	ANNUAL PENSION PAYABLE
Under 30	1	3,824
30-34	2	21,780
35-39	6	90,079
40-44	13	196,906
45-49	27	434,244
50-54	96	2,117,788
55-59	195	4,477,366
60-64	237	4,869,376
65-69	260	4,399,020
70-74	329	4,232,066
75-79	209	1,907,520
80-84	106	724,782
Over 84	92	502,256
TOTALS	1,573	23,977,007

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	1	30,052			
50-54					
55-59					
60-64					
65-69					
Over 69					
TOTALS					
TOTALS	1	30,052			

SCHEDULE A - Demographic Data as of	JANUARY 1 , 1999	CITY OF PITTSBURGH	<u>ALLEGHENY</u>
Page 2 of 2	(Valuation Date)	(Municipality)	(County)

Part III - Distribution of Active Members by Age and Service

			YEARS OF SERVICE								
AGE		1	2	3	4-5	6-10	11-15	16-20	21-25	26-30	30+
Under	No. of Members										
20	Payroll (\$000)	,									
20-24	No. of Members			1							
	Payroll (\$000)			38							
25-29	No. of Members	9		24	67	5					
	Payroll (\$000)	285		913	2907	227					
30-34	No. of Members	8		31	185	65					
	Payroll (\$000)	253		1177	8026	2960					
35-39	No. of Members	. 4		14	92	76	15	1			
	Payroll (\$000)	127		532	3989	3431	744	52			
40-44	No. of Members	1		9	34	49	35	43	4		
	Payroll (\$000)	32		342	1474	2223	1673	2184	192		
45-49	No. of Members			. 2	13	23	29	52	34		
	Payroll (\$000)			76	564	1054	1375	2614	1781		
50-54	No. of Members			1	3	13	11	25	20	47	
	Payroll (\$000)			38	129	581	516	1202	1007	2434	
55-59	No. of Members				2	4		6	2	10	17
	Payroll (\$000)				88	176		307	115	494	857
60-64	No. of Members							1		4	7
	Payroll (\$000)							46		187	358
65 &	No. of Members										
Over	Payroll (\$000)							<u> </u>			
TOTAL N	MEMBERS	22		82	396	235	90	128	60	61	24
TOTAL A	ANNUAL PAYROLL	696		3116	17176	10652	4307	6405	3095	3114	1214

SCHEDULE B - Fi		- Financial Data as of	nancial Data as of, 1999			
-age I	01 3		(Valuation Date)		(Municipality)	(County)
INSTI	RUCTIONS	: Print or type the requested in or exhibits only to explain o	formation in the space provided. r support data entered on the sch	Round to the neares edule.	t dollar. Enter zero, if appli	cable. Refer to attachment
Sectio	n I - State	ment of Net Assets Availa	ble for Benefits as of the Va	luation Date		
A	A conto					Item No
A	. Assets: 1. Cas	h			·	0 (1
			s Receivable			
		er Receivables (Specify)	s receivable	•••••		0 (2
					s	0 (3
		,				
	4. Inve	stments at Market Value (S				·
		ALLOCATION OF AGO	GREGATE TRUST		\$	160,107,628 (6
				•••••••	\$	0_(7
				•••••	\$ <u></u>	0 (8
				•••••	\$ <u></u>	0 (9
			•••••••••••••••••••••••••••••••••••••••			、
			der Value (Individual Policies)		\$ <u> </u>	0 (11
	6. Othe	r Assets (Specify)				0
						 ,

	•	Total Assets			\$	
		Total Assets		• • • • • • • • • • • • • • • • • • • •		(15
В.	Current I	.iabilities:				
			Administrative Expenses		e ·	0 (16
		r Current Liabilities (Specif		••••••••••••		(10
		· -			s	0 (17
						•
	7	otal Current Liabilities		••••••	\$	0 (20
~	37 . ·				•	60 107 600
C.	Net Asse	ts Available for Benefits (N	farket Value) as of valuation d	ate	\$ <u></u> 1	00, 107, 628 (21

, 1999 CITY OF PITTSBURGH

(Municipality)

(County)

ion II - Statement of Revenues, Expenses and Change in Fund Assets for the year ended on the	Valua	ation Date	
			Iten
A. Net Assets at Beginning of Year (Market Value)	\$	39,676,851	
3. Revenues:			
Member Contributions	\$	3,216,309	
Total Municipal Contributions	\$	9,726,573	
a. State Aid Portion \$ 7,250,913 b. Local Portion \$ 2,475,660			
Supplemental State Assistance Grant		0	
Interest Earnings (ALLOCATED INVESTMENT EARNINGS AND MISC. INCOME)			
Dividend Income			
Realized Capital Gains			
Other Revenues or Credits (Specify)	•		
PENSION BOND PROCEEDS	\$	119.407.735	
PASS THROUGH CONTRIBUTIONS			
Total Revenues			
. Expenses:			
Total Benefit Payments (Lump Sum)	\$.	0	_ (
Total Benefit Payments (Monthly)	\$.	25,138,179	(
Annuity Purchases (Lump Sum)	\$.	0	
Insurance Premiums	\$.	0	
Refund of Member Contributions	\$.	139,862	_
Administrative Expenses	\$ _	784,712	(
Realized Capital Losses	\$ _	0	_
Other Expenses or Debits (Specify)			
	_ \$ _	0	'
	_ \$ _	0	(
Total Expenses			
Total Expenses	\$ _	0	_ (

CITY OF PITTSBURGH

(County)

Page 3 of 3

(Valuation Date)

(Municipality)

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 1997 for the plan year beginning in 1998. [Section 302(C) of Act 205 of 1984.]

Item No. A. IDENTIFICATION OF THE ACTUARIAL VALUATION REPORT used to determine funding Mo. Da. 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.) (24 TOTAL NORMAL COST, expressed as a percentage of total annual payroll, derived from actuarial valuation report identified in item 23 TOTAL PROJECTED NORMAL COST for year ended on valuation date TOTAL ADMINISTRATIVE EXPENSES projected for year ended on valuation date\$___ (29 MEMBER CONTRIBUTIONS projected for year ended on valuation date ______\$ 2,969,769 FUNDING ADJUSTMENT determined pursuant to Section 302(c)(2) of Act 205 of 1984 for year ended on valuation date 1 MINIMUM MUNICIPAL OBLIGATION (MMO) for year ended on valuation date 10. DELINQUENT MMO PLUS INTEREST from plan year beginning in 1997\$_____\$ C. DEVELOPMENT OF PRE-AUTHORIZED ADJUSTMENT TO MINIMUM MUNICIPAL OBLIGATION under Section 605 or 607 of Act 205 of 1984. 2 TOTAL MUNICIPAL CONTRIBUTION to the pension plan for the plan year __(36 3. ADJUSTMENT FACTOR APPLICABLE % (37 ADJUSTED MMO for the year ended on valuation date (Item 35 + Item 38)\$ DELINQUENT MMO PLUS INTEREST from plan year beginning in 1997\$ TOTAL ADJUSTED MMO for year ended on valuation date (Item 39 + Item 40)\$

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.

SCHEDULE C - Actuarial Data as	of JANUARY 1,	1999	CITY OF PITTSBURGH	ALLEGHENY
Page 1 of 4	(Valuation Date)		(Municipality)	(County)
	s using the entry age normal actuarial cost method ats or exhibits only to explain or support data ente			e nearest dollar.
ection I - Presentation of Actuaria	al Present Value of Future Benefits as of th	ie Valu	uation Date	
				Item No.
A. Actuarial Present Values for				
	efits only if valued using EAN.)		m 119 9"	73 053
	of Member Contributions RETIREMENT DEATH AND VESTED BEN			,
	Members			
Subtotal for Active	Wembers		5 <u>109,07</u>	(6
B. Actuarial Present Values for	Non-Active Members and Benefit Recipient	s		
	is		\$ 18	35,786 (7
				•
•				
			·	,
, - , - , - , - , - , - , - , - , - , -	ctive Members and Benefit Recipients			
C. Total Actuarial Present Value	e of Future Benefits (Without adjustments)		\$ <u>358,25</u>	57,237 (13
D. Total Adjustments for Ancill	ary Benefits Valued through Approximation	lechn	uques '\$	(14
E. Total Actuarial Present Value	e of Future Benefits (Item 13 + Item 14)	•••••	\$ <u>358,25</u>	<u>67,237</u> (15

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

SCHEDULE C - Actuarial Data as of	JANUARY ,	1999	CITY OF PITTSBURGH	PC-20 ALLEGHENY
Page 2 of 4	(Valuation Date)		(Municipality)	(County)

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	j
\$ 131,617,548	1998	2037	40	\$ 134,613,285	\$ 7,746,181	(10

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	N/A	N/A	N/A	N/A	N/A
Actuarial Assumption Modification	N/A	N/A	N/A	N/A	N/A
Actuarial Losses (+) or Gains (-)	815,131	1999	2013	15	92,775
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A
Total	\$ 815,131	xxxxx	xxxxx	xxxxx	\$ 92,775

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
Aggregation of all prior changes (exclude changes in Section B)	-2,855,306 \$	1998	2017	19	-292,683 \$ (
Aggregation of all changes (include changes in Section B)	-2,040,175 \$	Current Valuation Date	n/A	n/A	-199,908 \$ (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.

(Valuation Date)

, 1999 CITY OF PITTSBURGH (Municipality

Section	III _	Presentation	ωf	Actuarial	Assum	ntions	and	Methods
Section	TTT -	I I CSCHEAUUH	UI	Actualiai	Woonill	hmons	anu	MICHIORS

on II	I - Presentation of Actua	rial Assumptions and Methods
A . A	• .ctuarial Assumptions	
	•	
1	. Interest Rate -	9.0 percent increase per annum.
2.	Salary Projection -	6.35 percent increase per annum. Merit Increase: 2.85 percent increase per annum. Inflation: 3.5 percent increase per annum.
3.	Disability Rates -	See appendix.
4.	Termination Rates -	See appendix.
5.	Mortality -	Healthy: UP-1984 Table, with female ages set back five years. Disabled: UP-1984 Table, with male ages set forward five years.
6.	Retirement Age -	Active members are assumed to retire at 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 62 with 20 years of service are assumed to retire immediately.
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		JANUARY I	, 1999 _	CITY OF PITTSBURGH	ALLEGHEN
Page 4 o	of 4	(Valuation Date)		(Municipality)	(County)
Section	IV - Presentation of Benefit Plan F	Provisions			
A.	Eligibility Requirements Normal Retirement Age 50 a Early Retirement N/A. Vesting If a member comp benefit based on aver	leted 20 years of s	service, may		ed member
B.	months prior to retir	efit salary related.) al to 50 percent of ement for members h	average co	mpensation (averaged of 1991; averaged over the 1992), plus an (Conti	over the 36
C.		o elected, a spouse uld have received a	paid benef	it equal to 50 percent	accumulated
D.	Disability Benefit (Describe fully inches Service Related For total of the participant's Non-service Related For total of service, a monthly the year prior to disable to the participant of service.	and permanent disabearnings in the yea al and permanent di benefit equal to 5	lement, a mr prior to	onthly benefit equal t disablement.	10 years
E.	Post Retirement Adjustments (Descrit minimum/maximum adjustments etc.)	pe fully including frequency of	f adjustment, basis	for adjustment,	
F.	Other Benefit (Specify and describe.) Vesting: If eligible	, the accrued benef	it at termi	nation payable at age	50.
G.	Other Benefit (Specify and describe.)				
H.	Member Contributions Amount or Rate <u>Participar</u> Interest Rate Credited to Member		e 6.0 percer		on, plus month.

Section IV - Presentation of Benefit Plan Provisions Eligibility Requirements Cont.

Vesting Cont.: continues contributions at a rate in effect at termination).

Retirement Benefit Cont.: 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.

Survivor Benefit Cont.

After Retirement: If so elected, a spouse paid benefit equal to 50 percent of the pension, the member was receiving. Upon the spouse's death or remarriage, the members dependent children are entitled to receive a benefit equal to 25 percent of payments to the spouse until age 18.

Attachment to Schedule C, Section IV

Summary of Plan Provisions Plan Year ☐ Twelve-month period beginning January 1 and ending December 31 □ September 1, 1935 Plan Established **Principal Definitions** ☐ Any person employed by the City **Employee** of Pittsburgh Bureau of Police, including all substitute uniformed employees of the Bureau. Retirement Benefit ☐ Assumed to be the first day of the month Commencement Date coincident with or next following eligibility for and election to retire Service Increment ☐ 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 ☐ Assumed to be completed years of service Service calculated from date of hire through date of retirement or severance, plus periods of service purchased Normal Form of Payment ☐ Monthly pension benefit payable for life **Participation Requirements** Date of hire Entry Date Compensation ☐ Base wages and longevity pay Average Compensation ☐ Compensation averaged over the 12month period prior to retirement or severance. Members hired after December 31, 1991 ☐ Compensation averaged over 36 months prior to retirement or severance.

Attachment to Schedule C, Section IV - Continued

Normal Retirement	
Eligibility	Age 50 and the completion of 20 years of Service
Monthly Benefit	☐ Equal to 50% of average compensation plus service increment if any
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
Members Hired after December 31, 1991	☐ Sum of this benefit and member's workers' compensation benefit shall not exceed member's regular salary at time of 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
Terminated Participants	☐ If contributions continue at same rate in effect at termination and continue to age 50, member may receive monthly benefit based on rate of pay in effect had officer worked until age 50

Attachment to Schedule C, Section IV - Continued

Death Benefits	
Accidental Death	 Benefit plus return of member's accumulated contributions Benefit plus workers' compensation or other payments 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
Death After Retirement	 ☐ 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

Attachment to Schedule C, Section IV - Continued

Employee Contributions	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. The \$1 per month contribution will cease at age 65.
Refund	☐ Accumulated contributions without interest

Attachment to Schedule C, Section III

Actuarial Basis of Valuation

Actuarial Assumptions: January 1, 1999

Economic

Interest Rate

• Salary Projection

9.0 percent increase per annum

6.35 percent increase per annum

Merit Increase: 2.85 percent increase per

annum

Inflation: 3.5 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 five years

Withdrawal

Sample rates:

Age	Rate
20	1.67%
25	1.65%
30	1.58%
35	1.47%
40	1.10%
45	0.55%
50	0.13%
55	0.00%

Disablement

Sample rates:

Age	Male	Female
30	.22%	.26%
40	.50%	.98%
50	1.53%	1.94%
60	4.56%	3.49%

Attachment to Schedule C, Section III - Continued

• Retirement Age

Active members are assumed to retire at 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 62 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.

Actuarial Data as Page 1 of 6	of JANUARY 1 , 1999. For: POLICEMEN'S of CITY OF PITTSB (Valuation Date) (Pension Plan) (Municipality)	URGH	in ALLEGHEN (Count	
GENERAL INSTRUCTIONS	This exhibit is to be completed only if the municipality is reporting the issuance to fund unfunded actuarial accrued liabilities under section 404 of Act 205 or contributed to the pension plan are amortization contributions allocated under sedata requested in this exhibit is modified to reflect the funded status of the had the bond issue proceeds not been contributed to the pension plan. rounded to the nearest dollar, in the space provided. Enter zero or negative vablanks or refer to exhibits.	f 1984. ection 20 <u>e pensio</u> Print or	The bond issue properties of Act 2 on plan that would type the data re-	proceeds 205. <u>The</u> uld exist quested,
NOTE:	Earnings on bond issue proceeds contributed to the pension fund are to be calcula ratio of borrowed assets to total assets at market value as of the valuation d following the date on which the borrowed assets were contributed.	ted propate occi	portionately, base arring on or imm	ed on the nediately
A. Summary of M	fodified Actuarial Data			-
l. ACTU (Enter	JARIAL ACCRUED LIABILITY as of valuation date	\$ <u>29</u>	92,680,738	(E
2. TOTA a. Ma	L FUND ASSETS arket Value of Assets 1	(E2		
b. Ac	tuarial Value of Assets reported in Item 2a above	\$3	39,472,431	(E
3. UNFU	INDED ACTUARIAL ACCRUED LIABILITY as of valuation date (+ or -) l minus Item 2b)	\$ _25	3,208,307	(E
4. AMOI	RTIZATION CONTRIBUTIONS			
	or amortization of initial unfunded actuarial accrued liability established 1/1/85. Amortization period remaining (years)		39	(E
2)	Amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date	s	14,773,769	(E
3)	Amortization contribution calculated as a level percentage of payroll for the plan year beginning on valuation date ³	\$	N/A	(E
lia	or amortization of all increases or decreases in unfunded actuarial accrued shility occurring after 1/1/85 or the initial UAL's establishment. Aggregated amortization period (years)		18	(E
2)	Aggregated amortization contribution calculated as a level dollar amount for the plan year beginning on valuation date	s	-369,535	(E
c. Mo	odified Total Amortization Requirement 4	\$	N/A	(E1
d. To	otal Amortization Requirement (Item E6 + E9 or Item E7 + E9 or Item E10, nichever is applicable)		4,404,234	(E1

¹ 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.

²Initial 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.

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

⁴ 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.

Actua Page 2	rial Data as of JANUARY of 6 (Valuation Da	, 1999. For:	POLICEMEN'S of C	ITY OF PITTSBURGH (Municipality)	in ALLEGHENY (County)
INST	of bond issue	proceeds. The r	tion period must be developed nodified aggregated amortization odified aggregated amortization	on period will not change	once it is calculated and
В. [Development of Modified Aggr	egated Amortiza	tion Period		
	Contribution Comprised of Bond Issue Proceeds	Date of Contribution	Modified Aggregated Amortization Contribution Target Date ² (MO/DA/YR)	Modified Aggregated Amortization Period Initially Established ² (Years)	Modified Aggregated Amortization Period Remaining (Years)
1.	\$ 119,407,735	03/10/98	03/10/2037	40 ox	40
2.	S			Prodies Forky Salve	
3.	\$				
4.	\$		·		
5.	S				
6.	s				
7.	S				
8.	\$				
9.	\$				
10.	municul 3,216,309 municul 7,250,913				
re ² D th	pm, 10,467,222 pm, 2,475,660 7,250,913 9,726,373	of original i.	bond issue proceeds used to fund to ded accrued liability and total amore tent that the period calculated is in-	rtization requirement shown in	1 Part A of this exhibit and
p€	10,467,222	J years.	•	Commission	Use Only
	3,725,575 740,649				
	1401947	× 1		Total \$ \$ 3	-0·ρ 921,659 I 921,659 T
			Λ		- 1. A.M.A.

Actuarial Data as of JANUARY 1 (Valuation Date), 1999. For: POLICEMEN'S of CITY OF PITTSBURGH (County) in ALLEGHENY (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 Unfunde	ed Actuarial Accru	ed Liability	
Amount of Initial Liability	Date Established	Target Date	Original Amortization Period	Remaining Balance	Level Dollar Amortization Contribution
\$ 251,025,283	1998	2037	40	256,738,849 \$	14,773,769 \$ (E11

Changes in Unfunded Actuarial Accr	ued Liability Since the	Last Actuarial Va	luation Report Pr	epared and Submi	tted 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	N/A	N/A	N/A	N/A	N/A
Actuarial Losses (+) or Gains (-)	-675,232	1999	2013	15	-76,852
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A
Total	-675,232 \$	xxxxxx	XXXXXX	xxxxxx	s -76,852 (E12

Aggregation Description	n of Changes in Unfunded Remaining Balance of Aggregated Liability	Actuarial Accri	ned Liability Sin Aggregated Target Date	ce Initially Establishe Agg. Amortization Period	d in 1985 Aggregated Amo Contribution	
Aggregation of all prior changes (exclude changes in Section B)	-2,855,310 \$	1998	2017	19	-292,683	(E13
Aggregation of all changes (include changes in Section B)	-3,530,542 \$	Current Valuation Date	N/A	N/A	-369,535	(E14

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.

Actuarial Data as of JANIJARY 1, 1999. 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 and for each instance where the remaining unpaid principal of such debt is refinanced.

If more than one Part D is required, please submit color coded copies or request additional originals from the Commission's office.

NOTE: 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. In the event of refinancing, Part D is to reflect the revised debt service requirements.

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	Debt	rcentage of T Service Allo this Pension	cated	Date of Refinancing
03/10/98	\$ 255,865,000.00	\$ 120,512,415.10	*	47.6	%	N/A
	(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	<u> </u>	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.					
0.					
1.					
2.					
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9.					
). [

(Continue on additional pages, if necessary.)

Page 5 of 6	(Valuation Date)	(Pension Plan)	(Munic		(County)
Schedule I					
	INC	OF RECEIPTS AND DE LUDING BOND ISSUE PERIOD ENDING JAN	ASSETS		
TOTAL FUND	ASSETS AT JANUARY 1, 199	98 1	\$	39,676,851	· · · · · · · · · · · · · · · · · · ·
RECEIPTS	:				
Employ	er Contributions	\$2,4	75,660		·
Employ	ee Contributions	\$3,2	16,309		
State A	id	\$7,2	50,913		
Supplen	nental State Assistance	\$	0		
Investm	ent Income	\$13,8	77,508		
Net Cha	inge in Market Value	s	0		
Other R	eceipts (Identify) PASS. THROI		73,140		
TOTAL RE	& PENSION CEIPTS	BOND PROCEEDS	\$	146,493,530	
DISBURSE	MENTS:				
Monthly	Benefit Payments	\$25,1	38,179		
Refund o	of Employee Contributions	\$1	39,862		
Adminis	trative Expenses	s 7	84,712	· ·	
Other D	isbursements (Identify)	\$	0		
TOTAL DIS	BURSEMENTS		\$	26,062,753	
	SSETS AT JANUARY 1, 1999				
			_		

Municipalities that issued bonds on or after January 1, 1998: Value must equal Fund Assets at Market Value reported in Section V of the January 1, 1998, Act 205 actuarial valuation reporting form.

Municipalities that issued bonds prior to January 1, 1998: Value must equal Fund Assets at Market Value reported in Exhibit I, Page 1, Item 2, of the January 1, 1998, Act 205 actuarial valuation reporting form.

Biennial filers should prepare this schedule for a two-year period. Biennial filers should reflect Total Fund Assets at Market Value reported in Section V of the January 1, 1997, 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, 1997, actuarial valuation reporting form.

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

ge 6 of 6	(Valuation Date)	(Pension Plan)	(Municipality)	
Schedule II				
	EXC	T OF RECEIPTS AND DE LUDING BOND ISSUE PERIOD ENDING JAN	ASSETS	
TOTAL FUND	ASSETS AT JANUARY 1, 19	98 ¹	\$ ₋	39,676,851
RECEIPTS:				
Employe	er Contributions ²	\$ <u>9,50</u>	3,248	
Employe	e Contributions	\$ <u>3,21</u>	6,309	
State Aid	i	\$ <u>7,25</u>	0,913	
Supplem	ental State Assistance	\$	0	
Investme	ent Income ³	\$ <u>4,56</u>	1,475	
Net Char	nge in Market Value 4	\$ <u>77</u>	0,095	
Other Re	ceipts (Identify) PASS THRO	OUGH CONTR.\$26	5,405	
TOTAL REC	CEIPTS		\$ _	25,567,445
DISBURSEN	MENTS:			
Monthly	Benefit Payments	\$ _24,87	2,774	
Refund o	f Employee Contributions	\$13	9,862	
Administ	rative Expenses 5	\$ <u>49</u>	3,824	
Other Dis	sbursements (Identify) PASS. PAYME		5,405	
TOTAL DISE	BURSEMENTS		\$_	25,771,865
TOTAL FUND A	SSETS AT JANUARY 1, 199	9 6	s _	39,472,431

Municipalities that issued bonds prior to January 1, 1998: Value must equal Fund Assets at Market Value reported in Exhibit I, Page 1, Item 2, of the January 1, 1998, Act 205 actuarial valuation reporting form.

Biennial filers should prepare this schedule for a two-year period. Biennial filers should reflect Total Fund Assets at Market Value reported in Section V of the January 1, 1997, 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, 1997, actuarial valuation reporting form.

January 1, 1998, Act 205 actuarial valuation reporting form.

Municipalities that issued bonds prior to January 1, 1900 Tries.

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

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

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

⁵Investment expenses attributable to bond issue proceeds should be excluded from this amount.

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