PC-203C Commonwealth of Pennsylvania Public Employee Retirement Commission P.O. Box 1429 Harrisburg, PA 17105 - 1429	Mun	: PI	TTSBURG	Н	Plntyp:	203C
1999 ACT 205 ACTUARIAL VALUATION REPORT: NONUNIFORMED PENSION PLAN WITH DEFINED BENEFITS	RECEIPT		C MAR		- птур:	
FILING DEADLINE: March 31. 2000	FRMTYP C	REVIEW DE SILI	CODE	INPUT &	EDP	LOG
Section I - Identification of Municipality INSTRUCTIONS: Print or type requested information in the space pr  Note: In Part A, home rule municipalities should		and enter the r	umber of the	ir previous mi	unicipal classifi	cation.
A. Type of Municipality			••••••	······		tem No. (1
		Township Township		(4) (5)		
☐ Borough (3) ☐ Town (3)		Authority	onal Entity	(6) (7)		
B. Name of MunicipalityCITY_OF_PITTSBURGH C. Name of CountyALLEGHENY	I					(2 (3
Section II - Identification of Pension Plan and Specification of		te				
A. Name of Pension PlanCITY_OF_PITTSBURGH_MU	JNICIPAL P	ENSION FU	ND		<del></del>	(4
B. Date on which pension plan was established	•••••	***************************************	••••••	<u>05</u> Mo	/ <u>28</u> / 191 . Da. Yr	
C. Valuation date for demographic, financial and actuarial of (Use 1/1/1999 unless otherwise specified in plan document prior						<del>-</del> ''

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?	INSTRI	III - General Information		PC-20
Section II?		JCTIONS: Respond to each question by entering "yes" or "no" in the space provided.		
pension plan or plans that receive funding from the municipality?	A.	Is Social Security coverage provided for the active members of the pension plan identified in Section II?	. YES	(8
less than 35 hours per week?	B.		. NO	(9
the municipality identified in Section I? YES (1)  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? NO (1)  Section IV - Demographic Data as of JANUARY 1, 1999 (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 2, 293 (13)  2. Total annual payroll of active members on valuation date 5, 3, 541,589 (14)  3. Number of members terminated with vested or deferred benefit on valuation date 5, 3, 541,589 (14)  4. As of valuation date, number of persons receiving:  a. Retirement benefits 5, 354 (17)  c. Surviving spouse benefits 7, 9 (18)  d. Surviving child benefits 9, 0, (19)  5. As of valuation date, total annual benefits payable as:  a. Retirement benefits 5, 10,924,880 (21)  b. Disability benefits 5, 2,864,224 (22)  c. Surviving child benefits 5, 354,755 (23)  d. Surviving child benefits 5, 0, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. Total (a + b + c + d) 5, (24)  e. T	C.		. NO	(10
insurance coverage, that is provided wholly or partially by the municipality and not funded through the pension plan identified in Section II?	D.		. YES	(11
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	E.	insurance coverage, that is provided wholly or partially by the municipality and not funded	. <u>NO</u>	(12
2. Total annual payroll of active members on valuation date       \$ 73,611,589 (14)         3. Number of members terminated with vested or deferred benefit on valuation date       0 (15)         4. As of valuation date, number of persons receiving:       1,317 (16)         a. Retirement benefits       354 (17)         c. Surviving spouse benefits       79 (18)         d. Surviving child benefits       0 (19)         e. Total (a + b + c + d)       1,750 (20)         5. As of valuation date, total annual benefits payable as:       \$ 10,924,880 (21)         a. Retirement benefits       \$ 2,864,224 (22)         b. Disability benefits       \$ 354,755 (23)         d. Surviving spouse benefits       \$ 0 (24)         e. Total (a + b + c + d)       \$ 14,143,859 (25)		or exhibits. Complete Schedule A. Then complete the certification in Part B below.	nas of ference to the sen	ledules
3. Number of members terminated with vested or deferred benefit on valuation date       0       (15         4. As of valuation date, number of persons receiving:       1,317       (16         a. Retirement benefits       354       (17         c. Surviving spouse benefits       79       (18         d. Surviving child benefits       0       (19         e. Total (a + b + c + d)       1,750       (20         5. As of valuation date, total annual benefits payable as:       \$ 10,924,880       (21         b. Disability benefits       \$ 2,864,224       (22         c. Surviving spouse benefits       \$ 354,755       (23         d. Surviving child benefits       \$ 0       (24         e. Total (a + b + c + d)       \$ 14,143,859       (25	A.	Summary of Demographic Data		
4. As of valuation date, number of persons receiving:       1,317 (16         a. Retirement benefits       354 (17         b. Disability benefits       79 (18         d. Surviving spouse benefits       0 (19         e. Total (a + b + c + d)       1,750 (20         5. As of valuation date, total annual benefits payable as:       10,924,880 (21         a. Retirement benefits       \$ 2,864,224 (22         c. Surviving spouse benefits       \$ 354,755 (23         d. Surviving child benefits       \$ 0 (24         e. Total (a + b + c + d)       \$ 14,143,859 (25	A.	Summary of Demographic Data  1. Number of active members on valuation date	2,293	(13
a. Retirement benefits       1,317 (16         b. Disability benefits       354 (17         c. Surviving spouse benefits       79 (18         d. Surviving child benefits       0 (19         e. Total (a + b + c + d)       1,750 (20         5. As of valuation date, total annual benefits payable as:       \$ 10,924,880 (21         a. Retirement benefits       \$ 2,864,224 (22         b. Disability benefits       \$ 354,755 (23         d. Surviving spouse benefits       \$ 0 (24         e. Total (a + b + c + d)       \$ 14,143,859 (25	A.	Number of active members on valuation date	2,293 \$_73,611,589	(13
b. Disability benefits 354 (17 c. Surviving spouse benefits 79 (18 d. Surviving child benefits 0 (19 e. Total (a + b + c + d) 1,750 (20 5. As of valuation date, total annual benefits payable as:  a. Retirement benefits \$ 10,924,880 (21 b. Disability benefits \$ 2,864,224 (22 c. Surviving spouse benefits \$ 354,755 (23 d. Surviving child benefits \$ 0 (24 e. Total (a + b + c + d) \$ \$ 14,143,859 (25 c.	A.	Number of active members on valuation date	2,293 \$_73,611,589	(13
c. Surviving spouse benefits       79 (18         d. Surviving child benefits       0 (19         e. Total (a + b + c + d)       1,750 (20         5. As of valuation date, total annual benefits payable as:       \$ 10,924,880 (21         b. Disability benefits       \$ 2,864,224 (22         c. Surviving spouse benefits       \$ 354,755 (23         d. Surviving child benefits       \$ 0 (24         e. Total (a + b + c + d)       \$ 14,143,859 (25	A.	1. Number of active members on valuation date	2,293 \$_73,611,589 0	(13
e. Total (a + b + c + d)	A.	1. Number of active members on valuation date	2,293 \$ 73,611,589 0	(13 (14 (15
5. As of valuation date, total annual benefits payable as:  a. Retirement benefits	A.	1. Number of active members on valuation date	2,293 \$ 73,611,589 0 1,317 354	(13 (14 (15
a. Retirement benefits       \$ 10,924,880 (21         b. Disability benefits       \$ 2,864,224 (22         c. Surviving spouse benefits       \$ 354,755 (23         d. Surviving child benefits       \$ 0 (24         e. Total (a + b + c + d)       \$ 14,143,859 (25	A.	Summary of Demographic Data  1. Number of active members on valuation date	2,293 \$ 73,611,589 0 1,317 354 79 0	(13 (14 (15 (16 (17
b. Disability benefits	A.	1. Number of active members on valuation date  2. Total annual payroll of active members on valuation date  3. Number of members terminated with vested or deferred benefit on valuation date  4. As of valuation date, number of persons receiving:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving child benefits  e. Total (a + b + c + d)	2,293 \$ 73,611,589 0 1,317 354 79 0	(13 (14 (15 (16 (17 (18
c. Surviving spouse benefits       \$ 354,755 (23)         d. Surviving child benefits       \$ 0 (24)         e. Total (a + b + c + d)       \$ 14,143,859 (25)	A.	1. Number of active members on valuation date  2. Total annual payroll of active members on valuation date  3. Number of members terminated with vested or deferred benefit on valuation date  4. As of valuation date, number of persons receiving:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving child benefits  e. Total (a + b + c + d)  5. As of valuation date, total annual benefits payable as:	2,293 \$_73,611,589 0 1,317 354 79 0 1,750	(13 (14 (15 (16 (17 (18 (19
d. Surviving child benefits       \$ 0 (24         e. Total (a + b + c + d)       \$ 14,143,859 (25	A.	1. Number of active members on valuation date	2,293 \$ 73,611,589 0 1,317 354 79 0 1,750 \$ 10,924,880	(13 (14 (15 (16 (17 (18 (19 (20 (21
e. Total (a + b + c + d)	A.	Summary of Demographic Data  1. Number of active members on valuation date  2. Total annual payroll of active members on valuation date  3. Number of members terminated with vested or deferred benefit on valuation date  4. As of valuation date, number of persons receiving:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving child benefits  e. Total (a + b + c + d)  5. As of valuation date, total annual benefits payable as:  a. Retirement benefits  b. Disability benefits	2,293 \$ 73,611,589 0 1,317 354 79 0 1,750 \$ 10,924,880 \$ 2,864,224	(13 (14 (15 (16 (17 (18 (19 (20 (21 (22
	A.	1. Number of active members on valuation date 2. Total annual payroll of active members on valuation date 3. Number of members terminated with vested or deferred benefit on valuation date 4. As of valuation date, number of persons receiving: a. Retirement benefits b. Disability benefits c. Surviving spouse benefits d. Surviving child benefits e. Total (a + b + c + d)  5. As of valuation date, total annual benefits payable as: a. Retirement benefits b. Disability benefits c. Surviving spouse benefits	2,293 \$ 73,611,589 0 1,317 354 79 0 1,750 \$ 10,924,880 \$ 2,864,224 \$ 354,755	(13 (14 (15 (16 (17 (18 (19 (20 (21 (22 (23
R Cartification of Damagraphia Data	A.	Summary of Demographic Data  1. Number of active members on valuation date 2. Total annual payroll of active members on valuation date 3. Number of members terminated with vested or deferred benefit on valuation date 4. As of valuation date, number of persons receiving:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving child benefits  e. Total (a + b + c + d)  5. As of valuation date, total annual benefits payable as:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving spouse benefits  d. Surviving spouse benefits	2,293 \$ 73,611,589 0 1,317 354 79 0 1,750 \$ 10,924,880 \$ 2,864,224 \$ 354,755 \$ 0	(13 (14 (15 (16 (17 (18 (19 (20 (21 (22 (23 (24
b. Certification of Demographic Data	A.	Summary of Demographic Data  1. Number of active members on valuation date 2. Total annual payroll of active members on valuation date 3. Number of members terminated with vested or deferred benefit on valuation date 4. As of valuation date, number of persons receiving:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving child benefits  e. Total (a + b + c + d)  5. As of valuation date, total annual benefits payable as:  a. Retirement benefits  b. Disability benefits  c. Surviving spouse benefits  d. Surviving spouse benefits  d. Surviving spouse benefits	2,293 \$ 73,611,589 0 1,317 354 79 0 1,750 \$ 10,924,880 \$ 2,864,224 \$ 354,755 \$ 0	(13 (14 (15 (16 (17 (18 (19 (20 (21 (22 (23

EVEN M. MC(EAN)

DIRECTOR OF FINANCE
(Title)

	·		·				·	PC-203C
Section V -	Financial	Data as of	JANUARY 1		, 1999 (Valua	tion Date)		
NSTRUCTI	dat	a requested in Par	t A, rounded to the	n II, Part C, in the spa e nearest dollar, in the nen complete the certi	space provided. Ent	ter zero, if applicab	Schedule B. Print or le. Do not leave blan	type the ks or refer
	No			Part A of this section a ements involving adm		ust include all the a	ssets of the pension pl	an
A. Su	mmary of F	Financial Data						
1.	MARKET insurance	Γ VALUE OF A and annuity con	SSETS, excluding tracts, on the ab	g the cash surrende ove valuation date	r values of individu	ual \$	133,566,040	_ (26
2.	CASH SU above value	JRRENDER VA uation date or no	LUE of individuate arest anniversary	al insurance and any date	nuity contracts on t	he \$	0	_ (27
3.	TOTAL F	FUND ASSETS (luation date	(1 + 2) on the			\$	133,566,040	_ (28
4.	INVESTN dividends,	MENT INCOME , for the year end	, excluding individed on the above	idual insurance and valuation date	l annuity contract	\$ <sub>-</sub>	11,576,572	_ (29
5.	REALIZE on the abo	D CAPITAL Garage valuation date	AINS/LOSSES for the (+ or -)	or the year ended		\$	0	_ (30
6.	DIVIDEN on the abo	DS ON INSURA	ANCE/ANNUIT	Y CONTRACTS fo	r the year ended	\$ _	0	_ (31
7.	/I			the year ended on the loyer contributions po			3,127,815	(32
8.	allocated 1	under Act 205 R	ecovery Program	excluding Supplement, for the year ended b. Local Portion \$_	on valuation date	ce monies (8a + 8b)\$ _	3,749,173	(33
9.	on the val	luation date (Iten ibutions Receivabl	e	year ended  b. Contributions Re at end of year \$	ceivable		3,749,173	(34
10.	TOTAL M	ONTHLY BEN	EFIT PAYMEN	TS for the year endo	ed .		16,984,022	. (35
11.	ANNUAL premium a	INSURANCE ( innuity purchase	OR ANNUITY Plas, for the year en	REMIUM PAYME ded on the above v	NTS, excluding sin	gle \$ _	0	(36
12.	ADMINIS ended on t	TRATIVE EXP	ENSES paid fron	the assets of the p	ension plan for the	year\$ _	644,155	(37
13.	MINIMUN ended on the	MUNICIPAL he valuation date	OBLIGATION to	o the pension plan freported in item 34 or	or the year item 41 on page 12.	)\$_	3,749,173	(38
B. Cert	rification of	f Financial Data						
				e financial data ento		is section and in	Schedule B; and I fo	ırther
(Signatu	ire)	h M°	Lem	<i>C</i>			ach 24, v Pate) (12) VSS-VS elephone)	000
(Name)	len ,	M. Mc	LEAN		ECFOR OF Title)	Nancé (7	(12) VSS-VS elephone)	82

							<del></del>			
Section	n VI	- Ac	tuarial Da	ita as of	JANUARY	1		_ , 1999 (Valuation Dat	te)	
NSTRI	UCTI	ONS:								schedule C. Complete Part te the certification in Part C
			Note:		es provided in Pa nvolving adminis			t include all the assets of t	he pension	plan regardless of custodial
A.	Su	mma	ry of Actua	arial Data						
NSTRI	JCTI	ONS:		type the data required		the neares	t dollar, in the	e space provided. Enter zero	o or negativ	e values, if applicable.
	1.	AC	TUARIAL	. PRESENT VA	ALUE OF FUT	URE BEI	NEFITS as o	of valuation date	\$	<u>208,353,284</u> (40
	2.	AC	TUARIAL	PRESENT VA	LUE OF FUT	JRE NOI	RMAL COS	T as of valuation date	\$	24,060,108 (41
	3.									184,293,176 (42
	4.	AC casi	TUARIAL surrende	VALUE OF A	ASSETS, includation date	ing aggre	gate insurar	nce/annuity	\$	<u>133,566,040</u> (43
	5.	UN	FUNDED	ACTUARIAL	ACCRUED LI	ABILITY	as of valua	ation date (+ or -)	\$	50,727,136 (44
ı	6.	NO.	RMAL CO	OST (employer valuation date	& employee), efor the plan yea	xcluding r beginni	<i>administrat</i> ng on valuat	tive expenses, tion date:		3,283,595 (45
										4.461_%(46
	7									<u> </u>
	7.	of t	he pension	plan in the pri	TVE EXPENSE or plan year and	the plar	year begin	ning on valuation date 1	\$	662,504 (47
	8.	AN	NUAL CO	VERED PAYI	ROLL of active	members	as of valua	tion date	\$	73,611,589 (48
	9.		For amor	TION CONTRIDITION CONTRIDITION CONTRIDITION CONTRIBUTION	l unfunded act	narial acc	rued liabilit	y established 1/1/85. 2		39 (49
			2) Amor	rtization contrib year beginning	oution calculate on valuation da	i as a lev te	el dollar an	nount for the	\$	3,132,592 (50
			3) Amor	rtization contrit year beginning	oution calculate on valuation da	d as a lev	el percentag	ge of payroll for the	\$	<u>N/A</u> (51
		b.	liability o	courring after 1	acreases or decr /1/85 or the ini ation period (ye	tial ITAT!	's establishm	nent <sup>2</sup>		20 (52
			2) Aggr plan	egated amortiza year beginning	ition contribution on valuation d	n calcula	ated as a lev	el dollar amount for the	\$	-374,398 (53
		c.	Modified	Total Amortiza	ition Requireme	ent 4	•••••		\$	N/A (54
		d.	Total Am	ortization Requ is applicable)	irement (Item 5	0 + 53 or	Item 51 + 53	or Item 54,	\$	2,758,195 (55
	10.	AC.	TIAL OR	ESTIMATED	MEMBER CO	VTRIBII	TIONS to th	ne nension plan for the		3,127,815 (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

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.

<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.

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.

(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 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, tro	ue and accurate.
Vhanus Vlbx	3-24-00
(Signature of Chief Administrative Officer)	(Date)
Thomas Cox Executive Secretary	(412 255-2694
(Name of Chief Administrative Officer) (Print or type)	(Telephone)

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 DA	TA FOR RETIRED MEMBERS
AGE	NUMBER	ANNUAL PENSION PAYABLE
Under 30		
30-34		
35-39	·2	22,055
40-44	12	126,586
45-49	18	184,803
50-54	50	389,687
55-59	114	915,051
60-64	222	2,260,132
65-69	316	2,782,389
70-74	383	3,044,768
75-79	314	2,340,306
80-84	185	1,286,090
Over 84	134	791,994
TOTALS	1,750	14,143,859

AGE	NUMBER	ANNUAL PROJECTED PENSION
Under 25		
25-29		
30-34		
35-39		
40-44		
45-49		
50-54		
55-59		
60-64		
65-69		
Over 69		
	. <u> </u>	
TOTALS		

SCHEDULE A - Demographic Data as of	JANUARY 1	, 1999	CITY OF PITTSBURGH	ALLEGHENY
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	1									<del> </del>
20	Payroll (\$000)	0									
20-24	No. of Members	13	2								
	Payroll (\$000)	364	77								
25-29	No. of Members	48	8	10	8	8					
	Payroll (\$000)	1717	233	310	286	259					
30-34	No. of Members	32	12	17	31	58	8		1		
	Payroll (\$000)	932	387	566	899	1913	263		40		
35-39	No. of Members	24	7	14	31	86	78	38	1		
	Payroll (\$000)	686	206	317	899	2729	2693	1306	39		
40-44	No. of Members	27	14	17	39	108	100	145	78		
	Payroll (\$000)	838	353	436	1073	3392	3262	4960	2662		
45-49	No. of Members	27	6	13	20	82	93	109	146	27	1
	Payroll (\$000)	772	201	299	625	2350	2977	3782	5235	898	25
50-54	No. of Members	15	6	6	13	43	66	56	67	40	15
	Payroll (\$000)	434	130	148	536	1108	1834	1561	2340	1367	442
55-59	No. of Members	6	1	3	8	38	38	35	51	27	22
	Payroll (\$000)	129	23	87	153	1050	1083	917	1508	918	729
60-64	No. of Members	3		7	7	23	14	10	15	11	13
<u> </u>	Payroll (\$000)	73		130	266	640	382	311	453	353	452
65 &	No. of Members		1		1	11.	5	8	5	8	7
Over	Payroll (\$000)		20		22	218	159	206	153	252	195
TOTAL I	MEMBERS	196	57	87	158	457	402	401	364	113	58
TOTAL A	ANNUAL PAYROLL	5945	1630	2292	4758	13658	12655	13041	12431	3788	1843

A. Assets:  1. Cash	SCHE Page 1		LE B -	Financial Data as of	JANUARY 1 (Valuation Date)	, 1999	CITY OF PITTSB (Municipality)		EGHENY ounty)
Item   A. Assets	INSTR	UCT	IONS:				st dollar. Enter zero, if ap	plicable. Refer to at	tachment
A. Assets:  1. Cash	Section	1 I -	Staten	nent of Net Assets Availa	ble for Benefits as of the V	aluation Date			
1. Cash								I	tem No.
2. Accrued Interest and Dividends Receivable       \$ 0         3. Other Receivables (Specify)       \$ 0         \$ 0       \$ 0         4. Investments at Market Value (Specify)       \$ 133,566,040         SHARE OF AGGREGATE TRUST       \$ 133,566,040         \$ 0       \$ 0 <tr< td=""><td>A.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	A.								
3. Other Receivables (Specify)    S		1.							(1
S   0					Receivable	•••••••••	\$	0	(2
S		3.	Othe	` • • • • • • • • • • • • • • • • • • •			•	0	(0
4. Investments at Market Value (Specify)  SHARE OF AGGREGATE TRUST  SHARE OF AGGREGATE TRUST  SHARE OF AGGREGATE TRUST  SHARE OF AGGREGATE TRUST  SOUTH STATE									•
4. Investments at Market Value (Specify)  SHARE OF AGGREGATE TRUST  S 133,566,040  S 0  S 0  S 0  S 0  S 0  S 0  S 0									(4
SHARE OF AGGREGATE TRUST		1	Inve			••••••••	Ф		(3
\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0		٦.	HIVE	•			· ·	133,566,040	(6
S   0									(7
S   0									
5. Insurance/Annuity Cash Surrender Value (Individual Policies) \$ 0 6. Other Assets (Specify) \$ 0 \$ 0 \$ 0 Total Assets \$ 133,566,040  B. Current Liabilities:  1. Accounts Payable and Accrued Administrative Expenses \$ 0 2. Other Current Liabilities (Specify) \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0									-
5. Insurance/Annuity Cash Surrender Value (Individual Policies)  6. Other Assets (Specify)  S 0 S 0 Total Assets  S 133,566,040  B. Current Liabilities:  1. Accounts Payable and Accrued Administrative Expenses  2. Other Current Liabilities (Specify)  S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S									•
6. Other Assets (Specify)  \$ 0  \$ 0  Total Assets		5.	Insur						-
S		6.				,			- `
S					***************************************		·\$_	0	_ (12
Total Assets						•••••	\$_	0	_ (13
B. Current Liabilities:  1. Accounts Payable and Accrued Administrative Expenses \$ 0  2. Other Current Liabilities (Specify) \$ 0  \$ 0  \$ 0  \$ 0					***************************************	•••••	\$_	0	_ (14
1. Accounts Payable and Accrued Administrative Expenses \$ 0 0 2. Other Current Liabilities (Specify) \$ 0 0 \$ 0 0			7	Total Assets		•••••	\$	133,566,040	_ (15
1. Accounts Payable and Accrued Administrative Expenses \$ 0 0 2. Other Current Liabilities (Specify) \$ 0 0 \$ 0 0									
2. Other Current Liabilities (Specify)	B.								
		1.	Acco	unts Payable and Accrued	Administrative Expenses	••••••	\$	0	_ (16
		2.	Other	Current Liabilities (Specif	ỳ)				
								^	
									_ (18
Total Current Liabilities					***************************************		\$	0	_ (19
Total Current Liabilities								-	
			T	Cotal Current Liabilities		••••••	\$	0	_ (20
122 566 060	_							133 566 040	
C. Net Assets Available for Benefits (Market Value) as of valuation date	C.	Ne	t Asset	ts Available for Benefits (N	Market Value) as of valuation	date	\$	155,500,040	_ (21

SCHED	ULE B - Financial Data as of	JANUARY 1	, 1999 _	CITY OF PITTSB	URGH L	ALLEGHENY
Page 2 of		(Valuation Date)		(Municipality)		(County)
Section	II - Statement of Revenues, Expen	ses and Change in Fund A	ssets for the yea	r ended on the Valuat	ion Date	
						Item No.
A.	Net Assets at Beginning of Year (M	larket Value)		\$_	75,472,32	2(1
,	,					
B.	Revenues:					
	Member Contributions			\$ _	3,127,81	5(2
	Total Municipal Contributions	***************************************		\$ _	3,749,17	3(3
	a. State Aid Portion \$ 2,	120,325 b. Local	Portion \$ 1,62	8,848		
	Supplemental State Assistance	Grant		\$ _		) (4
	Interest Earnings(ALLOCA	TED INVESTMENT EARN	INGS)	\$ _	11,576,57	2(5
	Dividend Income			\$ _	(	(6
	Realized Capital Gains			\$ _		<u>)</u> (7
	Other Revenues or Credits (Spe	ecify)				
	PENSION BOND PROCE	EEDS		\$ _	57,041,91	1(8
	PASS THROUGH CONT	RIBUTIONS		\$ _	1,053,32	5(9
	Total Revenues		•••••	\$ _	76,548,79	(10
<b>C.</b> 3	Expenses:  Total Benefit Payments (Lump	Sum)		\$ <u>_</u>		<u>)</u> (11
	Total Benefit Payments (Month	ly)		\$ <u>_</u>		
	Annuity Purchases (Lump Sum)		••••••	\$		(13
	Insurance Premiums		***************************************	\$ _		(14
	Refund of Member Contributio	ns		\$	826,90	1 (15
	Administrative Expenses			\$ _	644,15	5 (16
	Realized Capital Losses			\$		(17
	Other Expenses or Debits (Spec	ify)				
		· · · · · · · · · · · · · · · · · · ·		\$_	. (	(18
						(19
	Total Expenses	•••••		\$ <u></u>	18,455,078	(20
<b>D.</b> 1	Net Change in Market Value of Ass	ects (Unrealized Capital Gains	or Losses)	· \$	(	(21
<b>E</b> . 1	Net Assets at End of Year (Market V	Zalue)		\$ <u></u>	133,566,040	) (22

CITY OF PITTSBURGH

Page 3 o	of 3	rmanciai Data as 01	(Valuation Date)	(Municipality)	(County)
Section	III - Pre	sentation of the Determi	nation of the Minimum Municipal (	Obligation (MMO) for Year E	nded on Valuation Date
INSTRU	ICTIONS:	Enter data reflecting the r [Section 302(C) of Act 20	ninimum municipal obligation developed 05 of 1984.]	in the fall of 1997 for the plan year	ar beginning in 1998.
	requiren	nent (Enter valuation date u	TUARIAL VALUATION REPORT used in 1997 or earlier year.)		Mo. Da. Yr.
B.	(Enter "N		I MUNICIPAL OBLIGATION under ded the present value of future benefits in		984.
	1. TO	TAL ANNUAL PAYROI	L projected for year ended on valuati	ion date	64,489,456 (24
	2. TO deri	ΓAL NORMAL COST, extended from actuarial valuation	xpressed as a percentage of total annuion report identified in item 23	ıal payroll,	4.717% (25
	3. TO	FAL PROJECTED NORM n 24 x Item 25)	MAL COST for year ended on valuati	on date	3,041,968 (26
	4. TO	TAL AMORTIZATION F	REQUIREMENT for year ended on ve	aluation date	3,132,592 (27
	5. TO	TAL ADMINISTRATIVE	E EXPENSES projected for year ende	ed on valuation date	580,405 (28
	6. TO	ΓAL FINANCIAL REQU	IREMENTS (Item 26 + 27 + 28)	\$	6,754,965 (29
	7. ME	MBER CONTRIBUTION	IS projected for year ended on valuati	ion date	3,005,792 (30
	8. FUI	NDING ADJUSTMENT of the second	determined pursuant to Section 302(c) ate 1	(2) of Act 205 of 1984	0 (31
	9. MIN (Item	NIMUM MUNICIPAL OF n 29 - 30 - 31)	BLIGATION (MMO) for year ended o	on valuation date	3,749,173 (32
	10. DEI	LINQUENT MMO PLUS	INTEREST from plan year beginning	ng in 1997\$	0_(33
	11. TO	TAL MMO for year ended	d on valuation date (Item 32 + Item 33	·)	3,749,173 (34
C.		OPMENT OF PRE-AUTI ection 605 or 607 of Act 2	HORIZED ADJUSTMENT TO MINI 05 of 1984. <sup>2</sup>	MUM MUNICIPAL OBLIGAT	ION
	1. TOT begi	FAL MUNICIPAL CONT nning in 1997 (Not less th	RIBUTION to the pension plan for the adjusted MMO for applicable year.).	he plan year	(35
	2. AM	OUNT OF DIFFERENCE	E (Item 32 - Item 35) (Must be positive v	value.)\$	(36
	3. AD	USTMENT FACTOR A	PPLICABLE		% (37
	4. ADJ	USTMENT AMOUNT (	Item 36 x Item 37)	\$	(38
	5. ADJ	USTED MMO for the ye	ar ended on valuation date (Item 35 +	Item 38)\$	(39
	6. DEI	LINQUENT MMO PLUS	INTEREST from plan year beginning	g in 1997\$	(40
	7. TO	CAL ADJUSTED MMO	for year ended on valuation date (Item	n 39 + Item 40)\$	(41

<sup>&</sup>lt;sup>1</sup> Funding adjustment is applicable where assets exceed actuarial accrued liability and is equal to 10% of the amount of the excess.

<sup>&</sup>lt;sup>2</sup> Complete Part C only if municipality was certified under the Act 205 Distressed Municipal Pension System Recovery Program.

SCHE	DULE C - Actuarial Data as of	JANUARY 1	, 1999	CITY OF PITTSBURGH	ALLEGHENY
Page 1	of 4	(Valuation Date)		(Municipality)	(County)
INSTR		he entry age normal actuarial co hibits only to explain or support			e nearest dollar.
Section	I - Presentation of Actuarial Pres	ent Value of Future Benefits	as of the Valuatio	n Date	
					Item No.
A.	Actuarial Present Values for Active	Members			
	(Enter values for ancillary benefits only	<del>-</del> .			
	1. Retirement Benefits			\$ <u>64,0</u>	<u>51,555</u> (1
	2. Disability Benefits			\$ <u>17,9</u>	28,048 (2
	3. Survivor Benefits			\$	0(3
	4. Liability for the Refund of Mer	mber Contributions		\$ <u>1,4</u>	13,563 (4
	5. Others (Specify) DEATH & M	MEDICAL PREMIUM & VES	TED BENEFITS	\$ <u>20,0</u>	09,226 (5
	Subtotal for Active Member	ers		\$ <u>103.4</u>	02,392 (6
В.	Actuarial Present Values for Non-A	ctive Members and Benefit F	Recipients		
	1. Deferred Vested Benefits		-	\$	0 (7
	2. Retirement Benefits	***************************************		\$ 79,2	66,898 (8
	3. Disability Benefits				
	4. Survivor Benefits			,	,
	5. Others (Specify)			•	•
	* * * * * * * * * * * * * * * * * * * *	embers and Benefit Recipien			·— •
C.	Total Actuarial Present Value of Fu	ture Benefits (Without adjustm	nents)	<u>205,9</u>	32,111 (13
D.	Total Adjustments for Ancillary Be	nefits Valued through Approx	kimation Technique	s <sup>1</sup> \$ 2,3	71,173 (14
E.	Total Actuarial Present Value of Fu	ture Benefits (Item 13 + Item 1	14)	\$ 208,3	53,284 (15
	<u>.                                      </u>				

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 1	, 1999	CITY OF PITTSBURGH	PC-2030 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 Contribut	ion !
\$	53,226,758	1998	2037	40	\$ 54,438,248	\$ 3,132,592	(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	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 (-)	531,346	1999	2013	15	60,475
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A
Total	\$ 531,346	xxxxx	XXXXX	XXXXX	\$ 60,475 (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		Aggregated Amorti Contribution	
Aggregation of all prior changes (exclude changes in Section B)	-4,242,458 <b>\$</b>	1998	2017	19	-434,873 <b>\$</b>	(18
Aggregation of all changes (include changes in Section B)	-3,711,112 \$	Current Valuation Date	2018	20	-374,398 <b>\$</b>	(19

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

SCHEDULE C - Actuarial Data : Page 3 of 4	as of JANUARY 1 (Valuation Date)	, 1999 _	CITY OF PITTSBURGH (Municipality	ALLEGHENY  (County)
Section III - Presentation of Actu	narial Assumptions and Methods			
A. Actuarial Assumptions				
1. Interest Rate -	9.0 percent increase	e per annum.		
2. Salary Projection -	4.0 percent increase Merit Increase: 0.5 Inflation: 3.5 perc	5 percent in		
3. Disability Rates -	See appendix.			
4. Termination Rates -	See appendix.		·	
5. Mortality -			emale ages set back fi male ages set forward	
6. Retirement Age -	two-thirds of the wa (a) age 60 with 8 y	ay between: years of ser	etire one year earlier vice (or current age, vice (or current age,	if later), and
7. Other (Specify)	Administrative Exper	nses: 0.9 p	ercent of payroll.	

9. Other (Specify) -\_\_\_\_\_

8. Other (Specify) - Pre-Retirement Death Benefits: 2.5 percent of the pension, disability, and withdrawal liabilities.

B. Actuarial Cost Method (Specify) Entry age normal cost as specified by Act 205 of 1984.

SCHED	ULE C - Actuarial Data as of	JANUARY 1	, 1999	CITY OF PITTSBURGH	PC-203C ALLEGHENY
Page 4 of	f <b>4</b>	(Valuation Date)		(Municipality)	(County)
Section	IV - Presentation of Benefit Plan	Provisions			
A.		of age 50 or complet e 1975, 100 percent a	ion of 8 y after the	ears of service. ears of service. completion of 15 years the completion of 8 ye	
	compensation (average	mefit salary related.) er 1975, a monthly bed over 36 months if	enefit eq hired bef	ents, etc. and include period over w ual to 50 percent of a ore 1988; averaged ove nt of average compensa	verage r 48 months
	interest. Pre-Retire	e Early Retirement E ment, After Early Re	ligibilit tirement	or provided at the election of  y: Refund of contribu  Eligibility: A monthly  ntitled to receive or	y henefit equal
D. 1	participant's normal Non-service Related If to	and permanent disable retirement benefit a tal and permanent dionthly benefit equal	ement, a net date of sablement	monthly benefit equal	letion of 8
<b>E</b> . ]	Post Retirement Adjustments (Descriminimum/maximum adjustments etc.)  None.	ibe fully including frequency of	adjustment, ba	sis for adjustment,	
F. (				ination payable at the	
G. (	Other Benefit (Specify and describe.) None.				
Н. 1	Member Contributions Amount or Rate Members had Interest Rate Credited to Members			compensation. Member	s hired (Cont.

#### Section IV - Presentation of Benefit Plan Provisions Continued

Retirement Benefit Cont.:

for each completed year of service in excess of 20 years to a maximum of \$100 per month. Upon attainment of age 65, the benefit will be reduced by 50 percent of the social security benefit; the reduction shall not exceed 50 percent of the monthly benefit.

For members hired before 1975, with an average compensation (averaged over the final 36 months of employment) less than \$450, a monthly benefit equal to 60 percent of their average compensation (shall not be less than \$130), plus an additional 1.0 percent of average compensation for each completed year of service in excess of 20 years to a maximum of \$100.

For members hired before 1975, with an average compensation (averaged over the final 36 months of employment) greater than \$450, a monthly benefit equal to 55 percent of the first \$650 of average compensation and 30 percent of the excess compensation, plus an additional 1.0 percent of average compensation for each completed year of service in excess of 20 years of service to a maximum of \$100.

Survivor Benefit Cont.

Pre-Retirement, After Early Retirement Eligibility Cont.: date of death payable to the

date of death payable to the spouse until death or remarriage, at which time the participant's children will share the benefit until their 18th birthday.

After Retirement:

The surviving beneficiary will receive an amount equal to the excess, if any, of member's contributions over the retirement benefit paid on the member's behalf.

Member Contributions Cont.

Amount or Rate Cont.: after 1987; 4 percent of compensation.

#### CITY OF PITTSBURGH MUNICIPAL PENSION FUND

Attachment to Schedule C, Section I, Part D ACT 205 Form for 1999

Statement Required by Section 203.5 of the ACT 205 regulations regarding the case of an approximation technique for the valuation of ancillary benefits.

Benefit Valued by an Approximation Technique

Loading of Actuarial Values and Normal Cost

Used in Prior Valuation?

Pre-Retirement Death Benefits

2.50%

N

An explicit valuation of the benefits noted in this attachment requires complex calculations which do not materially improve the accuracy of the resulting funding costs. The decision to adopt the loading method or to continue it from prior years has been made because of the greater simplicity and timeliness of the method for a situation in which the exact approach does not improve the reliability of the results.

The use of this administratively simpler procedure is less costly and more timely. The total expected cost of these benefits is small compared to the total cost of retirement benefits. The loading is selected and monitored periodically to be representative in the aggregate of what a more exact calculation would produce. In my judgment, no significant distortion will occur as a result of using the loading factor rather than an exact procedure under the entry age actuarial cost method.

Certified by

Date

Kevin P. Counihan, F.S.A., E.A.

Enrolled Actuary No. 99-3925

03-23-60

# CITY OF PITTSBURGH MUNICIPAL PENSION FUND ATTACHMENT TO SCHEDULE C, SECTION III, ACT 205 FORM FOR 1999

Documentation required for certain actuarial assumptions by Section 203.3 of the ACT 205 regulations regarding the Range of Economic Actuarial Assumptions.

This actuarial report utilizes assumptions regarding salary projections and interest which taken together, fall outside of the range prescribed in paragraph (b)(3) of Section 203.3 of the regulations. The guidelines provide that the salary projection rate should be not more than 3 percent less than the actuarial assumption as to interest. For this Plan, the interest rate assumed is 9.0 percent per annum and the salary increase assumption is 4.00 percent per annum, a difference of 5.0 percent.

For 1999, we believe that using an interest rate and salary increase assumption within the guidelines would have been inappropriate, and that using our particular choice of actuarial assumptions was appropriate because of the reasons described below:

- 1. The 1997 experience investigation concluded that for the prior four years the average annual increase in salaries to continuing participants of 3.6 percent per annum. During the eight years ending 1996, the increases averaged 4.0 percent per annum. As of the valuation date, the outlook appeared to indicate that it was reasonable for increases to continue at this magnitude for at least the near term.
- 2. The average investment return for the period from January 1, 1985 through December 31, 1996 was 10.0 percent. Thus, on average, the fund exceeded the valuation rate of return over a 12-year period, even though that period included some years (such as 1994) in which the markets were down. Reducing the assumption to 7.0 percent (which could put the difference with the salary scale at 3 percent, and not require specific documentation) would have understated long-term expectations of interest earnings. The City's investment policies appear to support the reasonableness of the 9.0 percent assumption.

Because this difference is greater than both the regulation and the differences most commonly found in pension valuations the situation is being carefully and regularly monitored to assure the differential continues to be justified.

Certified By:

Kevin P. Counihan F.S.A., E.A.

KPC:tlc:i:/act205/pp11353

## 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

4.0 percent increase per annum

Merit Increase: 0.5 percent increase per annum

Inflation: 3.5 percent increase per annum

**Social Security Benefits** 

Actives: Offset based on 1998 Replacement Ratios

remaining constant to retirement.

Retirees: Offset based on:

actual benefit if 65 or older

one third of original pension amount, if less then 65

**Medicare Premiums** 

For 1999, \$45.50 per month. The premium for

years thereafter is assumed to increase at a

rate of 6.5 percent 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

## Attachment to Schedule C, Section III - Continued

Withdrawal

Sample rates:

Age	Rate
20	8.20%
25	7.98%
30	7.67%
35	7.18%
40	6.40%
45	5.24%
50	3.49%
55	1.28%
60	0.12%

• Disablement

Sample rates:

Age	Male	Female
30	0.09%	0.11%
40	0.21%	0.41%
50	0.65%	0.82%
60	1.93%	1.48%

• Retirement Age

Active members are assumed to retire one year earlier than two-thirds of the way between: (a) age 60 with 8 years of service (or current age, if later); and (b) age 65 with 8 years of service (or current age, if later)

Exclusions

Non-participants

• Percentage Married

Active: 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

Preretirement Death Benefits

- 2.5 percent of the pension, disability and withdrawal liabilities.
- Pittsburgh Water and Sewer Authority Payroll
- 4.0 percent increase in 1997 salaries

## Attachment to Schedule C, Section IV

## **Summary of Plan Provisions** Plan Year ☐ Twelve-month period beginning January 1 and ending December 31 Plan Established ☐ May 28, 1915 **Principal Definitions Employee** ☐ Any full-time employee of the City of Pittsburgh, other than a firefighter or police officer, and full-time employees of the Pittsburgh Water and Sewer Authority 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 1 percent of average compensation for each completed year of service in excess of 20 years to a maximum of \$100 ☐ Assumed to be completed years of service Service calculated from date of hire through date of retirement or severance ☐ Monthly pension benefit payable for life Normal Form of Payment **Participation Requirements** Entry Date ☐ Following completion of 90-day probationary period ☐ Base wages, plus "acting" or "in-grade" pay Compensation Averaged over the 3-year period prior to Average Compensation retirement or severance Members hired after December 31, 1987 ☐ Averaged over the 4-year period prior to retirement or severance

## Attachment to Schedule C, Section IV - Continued

Normal Retirement	
Eligibility	☐ Later of age 60 or completion of 8 years of service
Monthly Benefit	<ul> <li>□ Equal to 50% of average compensation and service increment, if any</li> <li>□ Prorated for service less than 20 years</li> <li>□ Upon reaching age 65 reduced by 50%</li> </ul>
	of social security benefit; the reduction shall not exceed 50% of the monthly benefit
Members hired prior to January 1, 1975	If pay is less than \$450: ☐ Equal to 60% of 3-year average pay ☐ Not less than \$130 ☐ Plus service increment, if any OR
	<ul> <li>If pay is greater than \$450:</li> <li>□ 55% of first \$650 of 3-year average pay and 30% of excess</li> <li>□ Not less than \$270</li> <li>□ Plus service increment, if any</li> </ul>
Supplemental Medical	☐ Eligible retired members and spouses will receive additional monthly payment equal to medicare coverage premium ☐ Employees hired after December 31, 1987 not eligible
Early Retirement	
Eligibility	☐ Later of age 50 or☐ Completion of 8 years of service
Benefit Amount	<ul> <li>□ Normal retirement benefit based upon average compensation at actual retirement</li> <li>□ May be deferred to age 60 or paid immediately in reduced amount</li> <li>□ Reduction will be 1/2 percent per month for each month that payment</li> </ul>
Members hired prior to January 1, 1975	commences prior to age 60  If 25 years service, reduction applied only on benefits attributed to earnings in excess of \$7.800

## Attachment to Schedule C, Section IV - Continued

Disability	
Eligibility	<ul> <li>Permanent disablement in line of duty or</li> <li>Permanent disablement (not in line of duty) after completing 8 years of service</li> </ul>
Benefit Amount	<ul> <li>Normal retirement benefit at date of disablement</li> <li>Not prorated for service less than 20 years</li> </ul>
Members Hired After December 31, 1987	Normal retirement benefit if at least age 60 with 8 years of service
Members Hired After December 31, 1987(Cont'd.)	<ul> <li>□ Disabled before age 60 with at least 8 years of service calculated as of age 60 with service being greater of:         <ul> <li>(a) Service at disablement or</li> <li>(b) The lesser of 20 years and completed service (assuming work until age 60)</li> </ul> </li> <li>□ Benefit is reduced so that the sum of the plan benefit and workers' compensation does not exceed member's regular salary at time of disablement</li> </ul>
Benefit Commencement Date	<ul> <li>□ First day of calendar month following determination of disablement and</li> <li>□ Continuing for the duration of disability prior to normal retirement date and life thereafter</li> </ul>
Vesting	☐ Attainment of age 40 and ☐ Completion of 8 years of service
Members hired prior to January 1, 1975	☐ Completion of 15 years of service/no age requirement
Vested Terminated Participants	☐ Normal retirement benefit if contributions continue to age 50 ☐ Benefit deferred to age 60

## Attachment to Schedule C, Section IV - Continued

Death Benefits Before Retirement	
Death After Early Retirement Eligibility	☐ Surviving spouse entitled to 50% of pension that would have been payable if member retired at date of death
Death Before Early Retirement Eligibility	☐ Member's beneficiary receives amount equal to member's contributions
Death Benefits After Retirement	☐ Member's beneficiary receives amount equal to the excess, if any, of member's contributions over retirement benefit paid on member's behalf
Members Hired Prior to 1988	☐ Married employee may deduct up to \$100 per month from retirement benefit to provid a \$100 per month benefit payable to surviving spouse until death or remarriage .
Spouse Predeceases Retiree	<ul> <li>Monthly benefit restored to full level for remainder of retiree's life</li> <li>At no time shall total benefit payment on behalf of member be less than the member's contributions to the fund</li> </ul>
Members Hired After December 31, 1987	<ul> <li>□ Married member may elect a reduced pension</li> <li>□ Spouse will receive 50% of the reduced pension</li> <li>□ Member's pension not restored to full level if spouse predeceases retiree</li> <li>□ Total benefit payments on behalf of member will be no less than member's contribution to fund</li> </ul>
Employee Contributions  Members hired prior to January 1, 1988	<ul><li>4% of compensation</li><li>5% of compensation</li></ul>

Actuarial Data as ofIANIJ Page 1 of 6 (Valua		MUNICIPAL of (Pension Plan)	(Municipality)	KGH i	ALLEGHENY (County)	<del></del>
INSTRUCTIONS: to fun contribution data representation in the contribution of the contr	xhibit is to be completed only d unfunded actuarial accrue buted to the pension plan are requested in this exhibit is the bond issue proceeds not do the nearest dollar, in this or refer to exhibits.	d liabilities under set amortization contribu modified to reflect to t been contributed e space provided. En	ction 404 of Act 205 of attions allocated under subset to the pension plan, after zero or negative value.	f 1984. Tection 20: e pension Print or a	The bond issue properties of the bond is the	oceeds 5. The Lexist lested, leave
ratio (	of borrowed assets to total ring the date on which the bo	assets at market valu	e as of the valuation of	late occui	ring on or immed	liately
A. Summary of Modified A	ctuarial Data			·		
1. ACTUARIAL A (Enter amount r	ACCRUED LIABILITY as of eported in item 42 on page 4	of valuation date of the reporting form	r) 	s	184,293,176	(E
2. TOTAL FUND		. 1				
	e of Assets 1				20 756 410	
b. Actuarial Va	lue of Assets reported in Iter	n 2a above	• • • • • • • • • • • • • • • • • • • •		29,756,419	(E
3. UNFUNDED A (Item 1 minus Item	CTUARIAL ACCRUED LI em 2b)	ABILITY as of valua	ation date (+ or -)	\$	154,536,757	(E
4. AMORTIZATIO	ON CONTRIBUTIONS					•
	ation of initial unfunded actu zation period remaining (yea			•	39	(E
2) Amortiz plan yea	zation contribution calculated ar beginning on valuation da	i as a level dollar am te	ount for the	s	9,121,224	(E
3) Amortiz plan yea	zation contribution calculated ar beginning on valuation da	d as a level percentag	e of payroll for the	s	N/A	(E
liability occ	ation of all increases or decre urring after 1/1/85 or the init ated amortization period (yea	ial UAL's establishm	ent. <sup>-</sup>		19	(E
<ol><li>Aggrega plan ye</li></ol>	ated amortization contributio ar beginning on valuation da	n calculated as a leve te	el dollar amount for the	·s	-404,097	(E
c. Modified To	otal Amortization Requireme	nt <sup>4</sup>	• • • • • • • • • • • • • • • • • • • •	s	N/A	(E)
d. Total Amort whichever is	ization Requirement (Item sapplicable)	E6 + E9 or Item E7 +	- E9 or Item E10.	S	8,717,127	(El
	<del></del>					

<sup>&</sup>lt;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>&</sup>lt;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>&</sup>lt;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>&</sup>lt;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.

Actua Page 2		l , 1999. For:	MUNICIPAL of CI (Pension Plan)	TY OF PITTSBURGH (Municipality)	in ALLEGHENY (County)
INST	of bond issue	proceeds. The r	tion period must be developed nodified aggregated amortizat odified aggregated amortization	ion period will not change	once it is calculated and
В. Г	Development of Modified Agg	regated Amortiza	tion Period		
	Contribution Comprised of Bond Issue Proceeds	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.	36,509,996 \$	12/15/96	12/15/2035	40	38
2.	s 57,041,911	03/10/98	03/10/2037	40 0%	40
3.	\$		·		
4.	s				
5.	S				
6.	S				
7.	e				

0	1873 404
	9564 176
\$	4438,380

8.

9.

10.

Con	nmission Use Only	
	525,000	P
	4438380	O
Total \$	4963,380	

Amertization

4,152,505

<sup>&</sup>lt;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>&</sup>lt;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.

Actuarial Data as of	IANUARY 1 , 1999. Fo	r: MUNICIPAL 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 Unfunde	ed Actuarial Accru	ed Liability		
Amount of Date Initial Liability Established		Original Target Amortization Date Period		Remaining Balance	Level Dollar Amortization Contribution	
\$ 154,981,297	1998	2037	40	158,508,814 \$.	9,121,224 \$ (E11	

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 (-)	270,401	1999	2013	15	30,776
Post-Retirement Adjustments	N/A	N/A	N/A	N/A	N/A
Total	\$ 270,401	xxxxxx	XXXXXX	xxxxxx	\$ 30,776 (EI

Aggregation	of Changes in Unfunded	Actuarial Accr	ied Liability Sin	ce Immally Establishe	d in 1985	
Description	Remaining Balance of Aggregated Liability	Date of Aggregation	Aggregated Target Date	Agg. Amortization Period	Aggregated Amor	
Aggregation of all prior changes (exclude changes in Section B)	-4,242,458 <b>s</b>	1998	2017	19	-434,873	(E13
Aggregation of all changes (include changes in Section B)	-3,972,057 \$	Current Valuation Date	2017	19	-404,097 \$	(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	JANUARY 1 , 1999.	For:	MUNICIPAL	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		Percentage of Total Debt Service Allocated to this Pension Plan		ted	Date of Refinancing
12/15/96	\$ 37,710,000.00	\$ 37,710,000	0.00	100		%	N/A
	(A)	(B)		(B÷A	2		

	Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date
1.	1997	\$	\$ 1,834,529.78	\$ -	\$ 37,710,000.00
2.	1998	525,000.00	2,564,976.25	-	37,710,000.00
3.	1999	560,000.00	2,533,905.00	-	37,185,000.00
4.	2000	590,000.00	2,499,965.00	_	36,625,000.00
5.	2001	630,000.00	2,463,050.00	-	36,035,000.00
6.	2002	670,000.00	2,423,065.00	-	34,405,000.00
7.	2003	715,000.00	2,379,772.50	-	34,735,000.00
8.	2004	760,000.00	2,332,930.00	<del>-</del>	34,020,000.00
9.	2005	810,000.00	2,282,285.00	-	33,260,000.00
10.	2006	865,000.00	2,227,631.25	-	32,450,000.00
п. [	2007	925,000.00	2,169,008.75	-	31,585,000.00
12.	2008	985,000.00	2,106,210.00	_	30,660,000.00
13.	2009	1,055,000.00	2,038,890.00	-	29,675,000.00
14.	2010	1,125,000.00	1,966,950.00	<del>-</del> .	28,620,000.00
15.	2011	1,200,000.00	1,890,225.00	-	27,495,000.00
16.	2012	1,285,000.00	1,808,220.00		26,295,000.00
17.	2013	1,375,000.00	1,717,690.00	· -	25,010,000.00
18.	2014	1,475,000.00	1,617,940.00	<del>-</del>	23,635,000.00
19.	2015	1,580,000.00	1,511,015.00	-	22,160,000.00
20.	2016	1,695,000.00	1,396,390.00	-'	20,580,000.00

## (CONTINUED FROM PAGE 4 OF 6)

	Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date
1.	2017	\$ 1,820,000.00	\$ 1,273,365.00	\$ -	\$ 18,885,000.00
2.	2018	1,950,000.00	1,141,415.00	_	17,065,000.00
3.	2019	2,095,000.00	998,792.50	<b>-</b>	15,115,000.00
4.	2020	2,250,000.00	844,545.00	_	13,020,000.00
5.	2021	2,415,000.00	678,937.50	-	10,770,000.00
6.	2022	2,590,000.00	501,260.00	_	8,355,000.00
7.	2023	2,780,000.00	310,625.00	-	5,765,000.00
8.	2024	2,985,000.00	105,967.50		2,985,000.00
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Actuarial Data as of JANUARY 1, 1999. For: MUNICIPAL 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.

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## 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
03/10/98	<b>\$</b> 255,865,000.00	<b>\$</b> 57,569,624.42	22.3	N/A
	(A)	(B)	(B÷A)	

ĺ	Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date
ı.	1998	\$ -	\$ 1,873,403.84	\$ -	\$ 57,569,624.42
2.	1999	225,000.00	3,740,451.43	-	57,569,624.42
3.	2000	225,000.00	3,727,795.18		57,344,624.42
4.	2001	225,000.00	3,715,071.43	-	57,119,624.42
5.	2002	225,000.00	3,702,111.43	-	56,894,624.42
6.	2003	225,000.00	3,689,050.18	-	56,669,624.42
7.	2004	225,000.00	3,675,853.93	-	56,444,624.42
8.	2005	563,624.99	3,652,273.94	-	56,219,624.42
9.	2006	521,999.99	3,619,574.69	<del>-</del>	55,655,999.43
10.	2007	553,499.99	3,586,902.44	_	55,133,999.44
11.	2008	577,124.99	3,552,346.23	-	54,580,499.45
12.	2009	623,249.99	3,512,858.03	-	54,003,374.46
13.	2010	677,249.99	3,469,880.22	-	53,380,124.47
14.	2011	726,749.99	3,426,005.22	-	52,702,874.48
15.	2012	1,775,249.98	3,347,373.91	-	51,976,124.49
16.	2013	2,471,624.98	3,212,979.43	-	50,200,874.51
17.	2014	2,630,249.97	3,049,022.22	-	47,729,249.53
18.	2015	2,860,874.97	2,870,560.66	-	45,098,999.56
19.	2016	3,050,999.97	2,678,424.72		42,238,124.59
20.	2017	4,105,124.96	2,445,850.66		39,187,124.62

## (CONTINUED FROM PAGE 4 OF 6)

	(GONTINGE 1 AGE 4 OF 5)					
	Plan Year	Required Principal Payment	Required Interest Payment	Premium or Discount Amortized	Principal Balance at Valuation Date	
1.	2018	\$ 2,977,874.97	\$ 2,215,653.17	\$ -	\$ 35,081,999.66	
2.	2019	4,506,749.95	1,970,149.48	-	32,104,124.69	
3.	2020	4,814,999.95	1,662,531.73	-	27,597,374.74	
4.	2021	5,143,499.95	1,333,901.23	<b>-</b>	22,782,374.79	
5.	2022	5,495,624.94	982,810.12	-	17,638,874.84	
6.	2023	5,871,374.95	607,699.11	-	12,143,249.90	
7.	2024	6,271,874.95	206,971.86	_	6,271,874.95	
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