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City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation  
as of January 1, 2008  
for Purposes of  
Governmental Accounting Standards Board  
Statement No. 45 Reporting

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
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City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
**Disclosure Statement**

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**Purpose**

Actuarial computations under Governmental Accounting Standards Board Statement No. 45 (GASB No. 45) are for purposes of fulfilling certain employer accounting requirements. The calculations reported herein have been performed in accordance with generally accepted actuarial principles and practices, and on a basis consistent with our understanding of GASB No. 45. Determinations for purposes other than meeting the employer financial accounting requirements of GASB No. 45 may differ significantly from the results reported herein.

This valuation involves estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Amounts determined regarding the funded status of the plan and the annual required contributions of the employer are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

Calculations are based on the types of benefits provided under the terms of the substantive plan at the time of the valuation and on the pattern of sharing of costs between the employer and plan members to that point. Calculations reflect a long-term perspective, so methods and assumptions used include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets.

**Benefits Not Included**

Defined contribution benefits and insured benefits under paragraph 28 are not included in this valuation.

**Multiple Year Reporting**

Pursuant to GASB No. 45, this valuation can be used for a multiple year period. As such, this valuation provides all of the actuarial figures necessary to comply with GASB No. 45 over the applicable period. Nonetheless, some non-actuarial figures have been determined based on estimated contributions for the period. These figures may need to be adjusted for actual contributions deposited to the trust or claims paid on behalf of plan benefits.

A new valuation should be performed if, since this valuation, material changes have occurred that affect the results of this valuation, including significant changes in benefit provisions, the size or composition of the population covered by the plan, or other changes that impact long-term assumptions.

GASB No. 45 was implemented prospectively; therefore, the Net OPEB Obligation at Transition is \$0.

5/18/2009  
Date

David H. Killick  
David H. Killick, F.S.A.  
Consulting Actuary

DHK/JRM

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
Summary of Plan Provisions

<i>GROUP</i>	<i>ELIGIBILITY</i>	<i>COVERAGE AND PREMIUM SHARING</i>	<i>DURATION</i>
<b><u>I. POLICE</u></b>			
A) Retired prior to December 31, 1991	N/A – Already retired	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: City pays full premium until member reaches Medicare age. Upon reaching Medicare age, member must pay full premium to continue coverage.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and eligible dependents permitted to continue coverage. In such case, City pays full premium until spouse reaches Medicare age. Upon reaching Medicare age, spouse must pay full premium to continue coverage.</li> </ul> <p style="text-align: center;">-----</p> <p>Grandfathered Retirees: Two retirees do not pay any contributions for premium after Medicare age.</p>	Member and spouse are eligible for life.
B) Retire after January 1, 1992	Must be eligible for the Police Pension Plan benefits	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, Vision and Life.</li> <li>• Premium Sharing: City pays full premium for Paid-Up Life insurance in the amount of \$5,000 for the member only. City pays full premium for Medical, Prescription Drug, Dental and Vision.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and eligible dependents permitted to continue coverage. In such case, City pays full premium.</li> </ul>	Member and spouse are eligible for life.
<b><u>II. FIREFIGHTERS</u></b>			
A) Retired prior to December 31, 1986	N/A – Already retired	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: Member pays full premium.</li> <li>• Dependents: Spouse is covered. If retiree dies, spouse permitted to continue coverage. In such case, spouse pays full premium.</li> </ul>	Member and spouse are eligible for life.
B) Retired between January 1, 1987 and December 31, 1992	N/A – Already retired	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: City pays full premium for the retiree for Medical, Prescription Drug, Dental and Vision. Member must pay any additional premium for coverage of his or her spouse and any eligible dependents.</li> </ul>	Member and spouse are eligible for life.

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
**Summary of Plan Provisions**

B) Continued		<ul style="list-style-type: none"> <li>• Dependents: Spouse is covered. If retiree dies, spouse permitted to continue coverage. Spouse pays 100% of premium.</li> </ul>	
C) Retire after January 1, 1993	Must be eligible for the Fire Pension Plan A or Plan B benefits	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, Vision and Life.</li> <li>• Premium Sharing: City pays full premium for Paid-Up Life insurance in the amount of \$5,000 for the member only. City pays full premium for Medical, Prescription Drug, Dental and Vision. As member and spouse become eligible for Medicare, the City reimburses for Medicare Part B premium.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, City pays the full premium. If a firefighter dies in the line of duty, spouse and any eligible dependents permitted to continue coverage. In such case, City pays the full premium.</li> </ul>	Member and spouse are eligible for life.
<b><u>III. NON-UNIFORMED MANAGEMENT EMPLOYEES</u></b>			
A) Retired prior to August 4, 2002	N/A – Already retired	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: Member pays full premium.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay the full premium.</li> </ul> <p>-----</p> <p>Grandfathered Retirees: Four retirees do not pay any contributions for premium.</p>	Member and spouse are eligible for life.
B) Retire after August 5, 2002 and Hired prior to January 31, 2008	Must be eligible for the Non-Uniformed Pension Plan benefits	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, Vision and Life.</li> <li>• Premium Sharing: City pays full premium for Paid-Up Life insurance in the amount of \$5,000 for the member only. City pays full premium for Medical and Prescription Drug for retiree and spouse. Member must pay any additional premium for coverage of any eligible dependents. Member must pay full premium for Dental and Vision coverage.</li> </ul>	Member and spouse are eligible for life.

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
**Summary of Plan Provisions**

B) Continued		<ul style="list-style-type: none"> <li>Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, City pays the full Medical and Prescription Drug premium for the spouse. Spouse must pay any additional premium for coverage of any eligible dependents.</li> </ul>	
C) Retire after August 5, 2002 and Hired after to February 1, 2008	Must be eligible for the Non-Uniformed Pension Plan benefits	<ul style="list-style-type: none"> <li>Coverage: Medical, Prescription Drug, Dental, Vision and Life.</li> <li>Premium Sharing: City pays full premium for Paid-Up Life insurance in the amount of \$5,000 for the member only. City pays full premium for retiree for Medical. Member must pay any additional premium for coverage of his or her spouse and any eligible dependents. Member must pay full premium for Prescription Drug, Dental, and Vision coverage.</li> <li>Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</li> </ul>	Member and spouse are eligible for life.
<b><u>IV. NON-UNIFORMED UNION EMPLOYEES</u></b>			
A) Retired prior to December 31, 1996	N/A – Already retired	<ul style="list-style-type: none"> <li>Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>Premium Sharing: Member must pay full premium.</li> </ul> <p>Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</p>	Member and spouse are eligible for life.
B) Retired between January 1, 1997 and December 31, 2001	N/A – Already retired	<ul style="list-style-type: none"> <li>Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>Premium Sharing: City pays 50% of premium for single coverage. Member pays remaining 50% of premium, and for any coverage other than single coverage, member must pay any difference between the premiums. Member must pay full premium for Prescription Drug, Dental and Vision coverage.</li> </ul> <p>Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</p>	Member and spouse are eligible for life.

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
**Summary of Plan Provisions**

<p>C) Retired between January 1, 2002 and May 30, 2007, except between January 1, 2004 and April 30, 2004</p>	<p>N/A – Already retired</p>	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: City pays 60% of premium for single coverage. Member pays remaining 40% of premium, and for any coverage other than single coverage, member must pay any difference between the premiums. Member must pay full premium for Prescription Drug, Dental and Vision coverage.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</li> </ul>	<p>Member and spouse are eligible for life.</p>
<p>D) Retired between January 1, 2004 and April 30, 2004 (ERW)</p>	<p>N/A – Already retired</p>	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, and Vision.</li> <li>• Premium Sharing: City pays full Medical premium for retiree. Member must pay any additional premium for coverage of his or her spouse and any eligible dependents. City pays 75% of premium for retiree for Prescription Drug. Member pays remaining 25% of Prescription Drug premium and for any additional premium for coverage of his or her spouse and any eligible dependents. Member must pay full premium for Dental and Vision coverage.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</li> </ul>	<p>Member and spouse are eligible for life.</p>
<p>E) Retire after June 1, 2007</p>	<p>Must be eligible for the Non-Uniformed Pension Plan benefits</p>	<ul style="list-style-type: none"> <li>• Coverage: Medical, Prescription Drug, Dental, Vision and Life.</li> <li>• Premium Sharing: City pays full premium for Paid-Up Life insurance in the amount of \$5,000 for the member only. If member has attained age 60 and completed 20 years of service, City pays 100% of Medical premium for single coverage. If member is disabled after completion of 20 years of service, attained age 55 and completed 20 years of service or attained age 65 and completed 15 years of service, City pays 60% of premium for single coverage. Otherwise, member must pay 100% of the Medical premium for single coverage. For any coverage other than single, member must pay any difference between the premiums. Member must pay full premium for Prescription Drug, Dental and Vision coverage.</li> <li>• Dependents: Spouse and family are covered. If retiree dies, spouse and any eligible dependents permitted to continue coverage. In such case, spouse and any eligible dependents pay 100% of premium.</li> </ul>	<p>Member and spouse are eligible for life.</p>

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
Actuarial Assumptions and Methods (1 of 2)

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**Interest Rate**

4.50%

**Salary**

An assumption for salary increases is used only for spreading contributions over future pay under the entry age normal cost method. For this purpose, salaries are assumed to increase 5% each year.

**Withdrawal**

Table D-1: Rates of withdrawal at selected ages:

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
20	5.5000%	35	2.5000%	50	0.0000%
25	5.0000%	40	1.0000%	55	0.0000%
30	4.0000%	45	0.5000%	60	0.0000%

**Mortality**

UP1984 Table with 5 year postretirement age setback for females

**Disability**

SOA 1987 Group LTD

**Retirement**

Police and Firefighters: Later of age 52 and completion of 20 years of service or age at the valuation date.

Non-Uniformed Management Employees: Earlier of age 55 and completion of 20 years of service or age 65, or age at the valuation date, if later.

Non-Uniformed Union Employees: Later of age 60 and completion of 10 years of service or age at the valuation date.

**Percent of Eligible Retirees Electing Coverage in Plan**

100% of Police, Firefighters, and Non-Uniformed Management employees are assumed to elect coverage upon retirement. 100% of Non-Uniformed Union employees who retire at age 60 or older after completion of 20 years of service are assumed to elect coverage. For all other Non-Uniformed Union employees, 75% are assumed to elect coverage upon retirement. 100% of vested former Police and Firefighters are assumed to elect coverage at age 52 and 100% of vested former Non-Uniformed Management and Union employees are assumed to elect coverage at age 65. 100% of all employees are assumed to elect life insurance coverage.

**Percent of Eligible Retirees Who Smoke**

50% of all employees are assumed to be smokers.

**Percent Married at Retirement**

65% of Police, Firefighters, and Non-Uniformed Management employees are assumed to be married and have a spouse covered by the plan at retirement. 30% of Non-Uniformed Union employees are assumed to be married and have a spouse covered by the plan at retirement.



City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
Actuarial Assumptions and Methods (2 of 2)

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**Spouse Age**

Wives are assumed to be two years younger than their husbands.

**Non-spouse Dependents**

Non-spouse dependents are assumed to cease coverage upon attainment of age 23.

**Per Capita Claims Cost**

Making use of weighted averages for various plan designs, the per capita cost for medical and prescription drug is based on the expected portion of the group's overall cost attributed to individuals in the specified age and gender brackets. Dental, vision and life insurance costs are assumed to equal premiums. The resulting costs are as follows:

Age	Medical <sup>1</sup>		Prescription Drug <sup>2</sup>	
	Males	Females	Males	Females
45-49	\$3,747	\$5,412	\$1,613	\$2,330
50-54	\$4,963	\$6,117	\$2,137	\$2,633
55-59	\$7,111	\$7,530	\$3,062	\$3,242
60-64	\$9,860	\$9,190	\$4,245	\$3,957
65+	See note below		\$4,349	\$4,052

<sup>1</sup> For retirees, the medical claims costs above vary by factors ranging from 0.927 to 1.065 depending on the benefits plan the retiree is enrolled in. After attainment of age 65, medical claims costs are assumed to equal the premium of the Medicare Supplement Plan the member is enrolled in or will be enrolled in.

<sup>2</sup> For retirees, the prescription drug claims costs above vary by factors ranging from 0.948 to 1.043 depending on the benefits plan the retiree is enrolled in.

**Retiree Contributions**

Retiree Contributions are assumed to increase at the same rate as the Health Care Cost Trend Rate.

**Health Care Cost Trend Rate**

8.5% in 2008, decreasing by 0.5% per year to 5.5% in 2014. Rates gradually decrease from 5.3% in 2015 to 4.2% in 2099 and later based on the Society of Actuaries Long-Run Medical Cost Trend Model.

**Actuarial Value of Assets**

N/A - The plan is unfunded.

**Actuarial Cost Method - Entry Age Normal**

Under the Entry Age Normal Cost Method, the Normal Cost is the present value of benefits allocated to the year following the valuation date. Benefits are allocated on a level basis over the earnings of an individual between the date of hire and the assumed retirement age. The Accrued Liability as of the valuation date is the excess of the present value of future benefits over the present value of future Normal Cost. The Unfunded Accrued Liability is the excess of the Accrued Liability over the Actuarial Value of Assets. Actuarial gains and losses serve to reduce or increase the Unfunded Accrued Liability.

**Participant Data**

Based on census information as of January 1, 2008.

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation  
as of January 1, 2008

Section 1

Calculations for GASB No. 45 Reporting

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
Summary of Key Results (1 of 2)

	Police	Firefighters	Non-Uniformed	Total
<b>Demographic Information</b>				
Active Participants	164	88	296	548
Vested Former Participants	0	1	12	13
Retired Participants	123	70	83	276
Total	<u>287</u>	<u>159</u>	<u>391</u>	<u>837</u>
Estimated Annual Payroll of Active Participants	\$10,300,000	\$5,900,000	\$13,000,000	\$29,200,000
<b>Asset Information</b>				
Market Value of Assets	\$0	\$0	\$0	\$0
Actuarial Value of Assets	\$0	\$0	\$0	\$0
<b>Actuarial Calculations</b>				
Accrued Liability <sup>1</sup>	\$96,712,955	\$50,596,132	\$36,814,868	\$184,123,955
Normal Cost <sup>2</sup>	\$3,263,813	\$1,820,663	\$1,851,881	\$6,936,357
Annual Required Contribution (ARC) <sup>3</sup>	\$9,201,166	\$4,926,835	\$4,112,001	\$18,240,002
ARC as a Percentage of Covered Payroll	89.33%	83.51%	31.63%	62.47%

<sup>1</sup> **Accrued Liability** is the present value of all benefits attributed to past service of current plan participants as of the valuation date.

<sup>2</sup> **Normal Cost** is the present value of benefits allocated to the year beginning on the valuation date.

<sup>3</sup> **Annual Required Contribution (ARC)** represents the amount needed to fund 1) the cost of benefits attributed to the current year, plus 2) an amortized portion of unfunded liability.

It serves as the basis for determining the financial costs.

City of Harrisburg Postemployment Benefits Plan  
 Actuarial Valuation as of January 1, 2008  
 Summary of Key Results (2 of 2)

	Police	Firefighters	Non-Uniformed	Total
<b>Financial Statement Calculations</b>				
Annual OPEB Cost <sup>1,2</sup>				
For Period January 1, 2008 to December 31, 2008	\$9,201,166	\$4,926,835	\$4,112,001	\$18,240,002
For Period January 1, 2009 to December 31, 2009	9,089,942	4,867,941	4,058,846	\$18,016,729
Estimated Net OPEB Obligation at End of Year <sup>3,4</sup>				
As of December 31, 2008	\$6,785,490	\$3,592,943	\$3,242,866	\$13,621,299
As of December 31, 2009	13,224,895	6,972,654	6,367,494	\$26,565,043
Estimated Annual Pay-As-You-Go Cost Including Implicit Rate Subsidy <sup>5</sup>				
For Period January 1, 2008 to December 31, 2008	\$2,415,676	\$1,333,892	\$869,135	\$4,618,703
For Period January 1, 2009 to December 31, 2009	2,650,537	1,488,230	934,218	\$5,072,985

<sup>1</sup> **Other Postemployment Benefits (OPEB)** is postemployment benefits other than pension benefits. OPEB includes postemployment healthcare benefits, and all postemployment benefits provided separately from a pension plan, excluding benefits defined as termination offers and benefits.

<sup>2</sup> **Annual OPEB Cost** is the amount recognized as the expense in the employer's financial statements.

<sup>3</sup> **Net OPEB Obligation** is the cumulative difference between the annual OPEB cost and the employer's contributions to the plan. It is the amount that appears as a liability on the employer's financial statements. Please note that if a plan is not funded, the contribution is equal to the amount paid for benefits.

<sup>4</sup> **Note:** These amounts are estimates only. These amounts may be adjusted for actual contributions deposited or benefit payments made during the fiscal year. In addition, a new valuation should be performed if there have been significant changes in benefit provisions, the size or composition of the population covered by the plan, or other changes that impact long-term assumptions.

<sup>5</sup> For plans that do not track actual claims and expenses separately for retirees, employers should be aware that the entity's costs for retirees generally exceeds premium amounts to the Trust or Insurance Company. GASB 45 requires the liabilities reflect this "hidden subsidy." Correspondingly, employers should reduce amounts otherwise paid for active employees. For example, if the retirees' Annual Pay-As-You-Go cost is \$1,000,000 but the total premium paid for retirees is \$750,000 for retirees, this means the hidden subsidy valued is \$250,000. As such, the active employees' premium costs should be reduced by \$250,000.

City of Harrisburg Postemployment Benefits Plan  
 Actuarial Valuation as of January 1, 2008  
 Unfunded Accrued Liability and Amortization of Unfunded Accrued Liability

	Police	Firefighters	Non-Uniformed	Total
<b>Actuarial Present Value of Total Projected Benefits <sup>1</sup></b>				
Active Participants	\$81,964,319	\$46,784,401	\$43,184,225	\$171,932,945
Retired and Vested Former Participants	50,459,361	22,123,758	12,786,914	85,370,033
Total Actuarial Present Value of Projected Benefits	<u>\$132,423,680</u>	<u>\$68,908,159</u>	<u>\$55,971,139</u>	<u>\$257,302,978</u>
<b>Accrued Liability</b>				
Active Participants	\$46,253,594	\$28,472,374	\$24,027,954	\$98,753,922
Retired and Vested Former Participants	50,459,361	22,123,758	12,786,914	85,370,033
Total Accrued Liability	<u>\$96,712,955</u>	<u>\$50,596,132</u>	<u>\$36,814,868</u>	<u>\$184,123,955</u>
<b>Unfunded Accrued Liability</b>				
Accrued Liability	\$96,712,955	\$50,596,132	\$36,814,868	\$184,123,955
Less: Actuarial Value of Assets	0	0	0	0
Unfunded Accrued Liability	<u>\$96,712,955</u>	<u>\$50,596,132</u>	<u>\$36,814,868</u>	<u>\$184,123,955</u>
<b>Amortization of Unfunded Accrued Liability</b>				
Unfunded Accrued Liability	\$96,712,955	\$50,596,132	\$36,814,868	\$184,123,955
Amortization Factor <sup>2</sup>	16.2889	16.2889	16.2889	16.2889
Amortization of Unfunded Accrued Liability	<u>\$5,937,353</u>	<u>\$3,106,172</u>	<u>\$2,260,120</u>	<u>\$11,303,645</u>

<sup>1</sup> Actuarial Present Value of Total Projected Benefits is the present value of all benefits expected to be earned by current plan participants from their date of employment through their date of retirement.

<sup>2</sup> Amortization at the end of the year based on level dollar, 30 year open period.

City of Harrisburg Postemployment Benefits Plan  
 Actuarial Valuation as of January 1, 2008  
 Annual Required Contribution (ARC)

Annual Required Contribution (ARC)	Police	Firefighters	Non-Uniformed	Total
Normal Cost as of January 1, 2008	\$3,123,266	\$1,742,261	\$1,772,135	\$6,637,662
Interest	140,547	78,402	79,746	298,695
Total Normal Cost	<u>\$3,263,813</u>	<u>\$1,820,663</u>	<u>\$1,851,881</u>	<u>\$6,936,357</u>
Total Normal Cost	\$3,263,813	\$1,820,663	\$1,851,881	\$6,936,357
Amortization of Unfunded Accrued Liability	5,937,353	3,106,172	2,260,120	11,303,645
Annual Required Contribution (ARC)	<u>\$9,201,166</u>	<u>\$4,926,835</u>	<u>\$4,112,001</u>	<u>\$18,240,002</u>
Annual Required Contribution (ARC)	\$9,201,166	\$4,926,835	\$4,112,001	\$18,240,002
Covered Payroll	<u>10,300,000</u>	<u>5,900,000</u>	<u>13,000,000</u>	<u>29,200,000</u>
ARC as a Percentage of Covered Payroll	<u>89.33%</u>	<u>83.51%</u>	<u>31.63%</u>	<u>62.47%</u>

City of Harrisburg Postemployment Benefits Plan  
Actuarial Valuation as of January 1, 2008  
Annual OPEB Cost and Net OPEB Obligation

	Police	Firefighters	Non-Uniformed	Total
<b><u>For Fiscal Year January 1, 2008 to December 31, 2008</u></b>				
Annual Required Contribution (ARC)	\$9,201,166	\$4,926,835	\$4,112,001	\$18,240,002
Interest on Net OPEB Obligation <sup>1</sup>	0	0	0	0
Adjustment to ARC <sup>2</sup>	0	0	0	0
Annual OPEB Cost	<u>\$9,201,166</u>	<u>\$4,926,835</u>	<u>\$4,112,001</u>	<u>\$18,240,002</u>
Contributions Made (Estimated)	<u>(2,415,676)</u>	<u>(1,333,892)</u>	<u>(869,135)</u>	<u>(4,618,703)</u>
Estimated Increase in Net OPEB Obligation	<u>\$6,785,490</u>	<u>\$3,592,943</u>	<u>\$3,242,866</u>	<u>\$13,621,299</u>
Net OPEB Obligation - Beginning of Year	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Estimated Net OPEB Obligation - End of Year <sup>3</sup>	<u><u>\$6,785,490</u></u>	<u><u>\$3,592,943</u></u>	<u><u>\$3,242,866</u></u>	<u><u>\$13,621,299</u></u>
<b><u>For Fiscal Year January 1, 2009 to December 31, 2009</u></b>				
Annual Required Contribution (ARC) <sup>4</sup>	\$9,201,166	\$4,926,835	\$4,112,001	\$18,240,002
Estimated Interest on Net OPEB Obligation <sup>1</sup>	305,347	161,682	145,929	612,958
Estimated Adjustment to ARC <sup>2</sup>	<u>(416,571)</u>	<u>(220,576)</u>	<u>(199,084)</u>	<u>(836,231)</u>
Annual OPEB Cost	<u>\$9,089,942</u>	<u>\$4,867,941</u>	<u>\$4,058,846</u>	<u>\$18,016,729</u>
Contributions Made (Estimated)	<u>(2,650,537)</u>	<u>(1,488,230)</u>	<u>(934,218)</u>	<u>(5,072,985)</u>
Estimated Increase in Net OPEB Obligation	<u>\$6,439,405</u>	<u>\$3,379,711</u>	<u>\$3,124,628</u>	<u>\$12,943,744</u>
Estimated Net OPEB Obligation - Beginning of Year	<u>\$6,785,490</u>	<u>\$3,592,943</u>	<u>\$3,242,866</u>	<u>\$13,621,299</u>
Estimated Net OPEB Obligation - End of Year <sup>3</sup>	<u><u>\$13,224,895</u></u>	<u><u>\$6,972,654</u></u>	<u><u>\$6,367,494</u></u>	<u><u>\$26,565,043</u></u>

<sup>1</sup> Interest on Net OPEB Obligation is calculated at the discount rate of 4.50%.

<sup>2</sup> Net OPEB Obligation - End of prior year divided by the amortization factor of 16.2889.

<sup>3</sup> **Note:** These amounts are estimates only. These amounts may be adjusted for actual contributions deposited or benefit payments made during the fiscal year. In addition, a new valuation should be performed if there have been significant changes in benefit provisions, the size or composition of the population covered by the plan, or other changes that impact long-term assumptions.

<sup>4</sup> Annual Required Contribution (ARC) is assumed to be a level dollar amount.

City of Harrisburg Postemployment Benefits Plan  
 Actuarial Valuation as of January 1, 2008  
 Required Supplementary Information

Required Supplementary Information<sup>1</sup>

	Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) (b - a)	Funded Ratio (a / b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b - a) / c)
<b>Police</b>	1/1/2008	\$0	\$96,712,955	\$96,712,955	0.00%	\$10,300,000	938.96%
<b>Firefighters</b>	1/1/2008	\$0	\$50,596,132	\$50,596,132	0.00%	\$5,900,000	857.56%
<b>Non-Uniformed</b>	1/1/2008	\$0	\$36,814,868	\$36,814,868	0.00%	\$13,000,000	283.19%
<b>Total</b>	1/1/2008	\$0	\$184,123,955	\$184,123,955	0.00%	\$29,200,000	630.56%

<sup>1</sup> This information will be shown for up to the three most recent valuations in future reports.