City Of Dunbar, West Virginia Policemen's Pension and Relief Fund

Actuarial Valuation Report for the Year Beginning July 1, 2017





September 4, 2018

Ms. Connie L. Fulknier City Clerk P.O. Box 483 Dunbar, WV 25064 Retiree Scott E. Elliott
Pension Board Secretary
City of Dunbar Policemen's Pension and Relief Fund

Subject: City of Dunbar Policemen's Pension and Relief Fund
Actuarial Valuation Report for the Year Beginning July 1, 2017

Dear Ms. Fulknier and Retiree Elliott:

Upon the request of the Municipal Pensions Oversight Board, we have performed an actuarial valuation as of July 1, 2017, for the City of Dunbar, West Virginia Policemen's Pension and Relief Fund ("Fund" or "Plan"). This actuarial valuation has been performed in accordance with the West Virginia Code Chapter 8, Article 22, Sections 16 through 28, inclusive.

In accordance with West Virginia Code §8-22-20, this actuarial valuation report provides information on:

- The sponsor's funding requirements for the fiscal year ending June 30, 2019
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30,
 2019
- The Fund's eligibility to provide supplemental benefits for the plan year beginning July 1, 2019

West Virginia Code §8-22-20(c)(4) requires a review of the actuarial assumptions and methods at least once every five years and that the Actuary shall provide a report to the oversight board with recommendations on any changes to the actuarial process. Consequently, an experience review was performed for the period July 1, 2009, through June 30, 2014. The actuarial assumptions and methods were recommended by the actuary, in the report 2016 Experience Review for the Years July 1, 2009, to July 1, 2014, approved by the Municipal Pensions Oversight Board, and became effective for the actuarial valuation as of July 1, 2015.

This report is based on the sponsor's election to finance benefit obligations using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1).

This actuarial valuation is based upon:

Plan Member Data – Data for active members and persons receiving benefits from the Fund as of June 30, 2017, was provided by the Fund's staff. We have tested this data for reasonableness.

Asset Values – A reconciliation of market value of assets during the plan year ended June 30, 2017, and assets held as of June 30, 2017, by investment category, was provided by the Fund.

Plan Provisions – A summary of the key plan provisions valued are set forth in Section VI of the report: Summary of Principal Plan Provisions.

Actuarial Methods – Fund liabilities were measured using the Entry-Age Normal Actuarial Cost Method. The actuarial valuation was based on the market value of assets. The actuarial methods used in the actuarial valuation are set forth in Section V of the report: Actuarial Assumptions and Methods.

Actuarial Assumptions – The actuarial assumptions used include a discount rate of 6.00%. The actuarial assumptions used in the actuarial valuation are set forth in Section V of the report: Actuarial Assumptions and Methods.

The actuarial valuation results disclosed in this report are based on the data and actuarial assumptions and methods described above, and upon the provisions of the Plan as of the actuarial valuation date. Based on these items, we certify these results to be true and correct.

To the best of our knowledge, this actuarial statement is complete and accurate, and has been prepared in accordance with generally accepted actuarial principles and practices.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

This report should not be relied on for any purpose other than the purpose stated.

The signing actuaries are independent of the plan sponsor.

Alex Rivera and Lance J. Weiss are members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Sincerely,

Alex Rivera, FSA, EA, MAAA, FCA

alex Rivera

Senior Consultant

Lance Weiss, EA, MAAA, FCA

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Senior Consultant



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SECTION I

ACTUARIAL VALUATION RESULTS AS OF JULY 1, 2017

Executive Summary of Valuation Results as of July 1, 2017

Upon the request of the Municipal Pensions Oversight Board, we have performed an actuarial valuation as of July 1, 2017, for the City of Dunbar, West Virginia Policemen's Pension and Relief Fund ("Fund" or "Plan").

In accordance with West Virginia Code §8-22-20, this actuarial valuation report provides information on:

- The sponsor's funding requirements for the fiscal year ending June 30, 2019
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30, 2019
- The Fund's eligibility to provide supplemental benefits for the plan year beginning July 1, 2019

This report is based on the sponsor's election to finance benefit obligations using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1). The sponsor changed the funding policy used to determine contributions from the Alternative funding policy to the Optional funding policy, effective March 1, 2012.

The key features of the Optional funding policy, effective for plan years beginning after January 1, 2010, are summarized below:

- The current local Plan is closed to new employees
- New employees are covered in the multiple employer statewide plan *Municipal Police Officers* and *Firefighters Retirement System*
- Benefits and expenses in the closed local Plan are financed by contributions made from the following sources:
 - Employee contributions of 7.0% of pay for members hired before January 1, 2010, increased by up to 2.5% of pay if elected by the Board of Trustees of the Plan. Employees hired on or after January 1, 2010, contribute 9.5% of pay;
 - o The premium tax allocation assigned to the Fund for the plan year; and
 - Employer contributions equal to the normal cost, net of employee contributions, plus a 40year closed period amortization from January 1, 2010, on a level dollar basis, of the unfunded actuarial accrued liability net of premium tax allocation applicable to the plan year.



The following table provides the Plan's funded status:

Funded Status as of:	July 1, 2017
Assets	\$5,790,106
Actuarial Accrued Liability	\$8,038,499
Unfunded Actuarial Accrued Liability	\$2,248,393
Funded Ratio	72.03%

The following table provides the estimated employer contributions for the fiscal year ended June 30, 2018, under the Optional funding policy, based on the July 1, 2016 actuarial valuation produced by GRS:

Employer Contributions for FYE:	June 30, 2018
Estimated Payroll for PYE 06/30/2017	\$535,150
Employer Normal Cost for PYE 06/30/2017	\$167,467
Employer Normal Cost Rate for PYE 06/30/2017	31.3%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2017	\$156,615
State Insurance Premium Tax Allocation for FYE 06/30/2018	\$131,879
Employer Contribution for FYE 06/30/2018 a	\$192,203

The following table provides the estimated employer contributions for the fiscal year ended June 30, 2019, under the Optional funding policy, based on the July 1, 2017 actuarial valuation produced by GRS:

Estimated Employer Contributions for FYE:	June 30, 2019
Estimated Payroll for PYE 06/30/2018	\$427,525
Employer Normal Cost for Active Members for PYE 06/30/2018	\$136,629
Employer Normal Cost Rate for PYE 06/30/2018	32.0%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2018	\$154,245
State Insurance Premium Tax Allocation for FYE 06/30/2019	\$138,647
Estimated Employer Contribution for FYE 06/30/2019 ^a	\$152,227

^a The Employer Contribution cannot be less than the Employer Normal Cost.



The actual minimum employer contribution for fiscal year ending June 30, 2019, will be based on the actual payroll for the plan year ended June 30, 2018.

Commentary on Premium Tax Allocation

Under §8-22-19 of the West Virginia Code, the plan sponsor is required to deposit the statutory contribution on a monthly basis at a rate of one-twelfth of the annual requirement, in order to receive the premium tax allocation from the Municipal Pensions Security Fund. Revenues which are specifically collected for the Fund, including employee payroll contributions, must be deposited within five days of receipt.

Based upon discussions with the Municipal Pensions Oversight Board (MPOB), we understand the annual premium tax allocation is determined by September 1st each year. Municipalities can begin invoicing the MPOB for their share of the premium tax allocation after receiving their state provided actuarial study and after the municipality has made employer contributions to the local Plan. Each municipal treasurer shall use the invoice template provided by the MPOB to begin drawing down the state allocation for the municipal pension plan. This July 1, 2017, Actuarial Report from GRS is to be used by municipal pension plans to draw down the September 1, 2018, State Premium Tax Allocation which is allocated in Fiscal Year 2019. The actuarial valuation and projection results assume the sponsor will make the statutory contributions on a monthly basis in accordance with statutes, and will be eligible to receive the premium tax allocation.

Commentary on Solvency Projections and Supplemental Benefits

Under § 8-22-26a of the West Virginia Code, all retirees, surviving spouses and disabled pensioners are eligible for Supplemental Benefits that include automatic cost-of-living benefits commencing on the first day of July following two years of retirement. The benefit equals the percentage increase in the Consumer Price Index, limited to 4.0 percent (2.0 percent for certain disabled pensioners), multiplied by the sum of the allowable amount (first \$15,000 of initial benefits paid) and the accumulated supplemental pensions paid in prior years.

The Court of Appeals decision requires that Supplemental Benefits be provided on "the allowable amount of the first \$15,000 of the total annual pension paid in addition to the accumulated supplemental pension from the previous years." The decision implies that compound cost-of-living increases should be applied to both the allowable amount of \$15,000 and the accumulated supplemental pension amounts for prior years. Additional Supplemental Benefits are payable only if the Plan satisfies the minimum standard for actuarial soundness as defined in West Virginia Code § 8-22-20. This minimum standard requires that the fund remain "solvent" over the next 15-year projection period. Based on discussions with the West Virginia Municipal Pensions Oversight Board, and our understanding of the administrative practices of other local police and fire pension funds in West Virginia, the "solvency" requirement generally means that the fund's market value of assets is projected to be greater than zero for all plan years prior to the end of the 15-year projection period. The projection is based on the most recent actuarial valuation and assumes the plan sponsor will make contributions according to the funding policy elected by the sponsor as defined by West Virginia Code, including any additional amounts needed to satisfy the 15-year solvency



test on a closed group projection basis. <u>Although the 15-year solvency test may satisfy the minimum standard for actuarial soundness under the statutes, it is not necessarily consistent with generally accepted actuarial principles.</u>

The City of Dunbar has elected to fund benefits using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1). Under this funding methodology, the fund's market value of assets is projected to be greater than zero for all plan years prior to the end of the 15-year projection period. Accordingly, this contribution methodology satisfies the minimum standard for actuarial soundness.

The Supplemental benefits for plan year beginning July 1, 2019, will be based on the Consumer Price Index for calendar year 2018, and the projected results of the July 1, 2017, actuarial valuation.

Additional Remarks on the Actuarial Valuation Results

Following are additional remarks on the actuarial valuation results as of July 1, 2017:

- The actuarial assumptions and methods were recommended by the actuary, in the report 2016
 Experience Review for the Years July 1, 2009, to July 1, 2014, and approved by the Municipal
 Pensions Oversight Board and became effective beginning with the actuarial valuation as of July 1,
 2015. The key assumptions are fully disclosed in Section V of the report.
- The interest rate used to discount liabilities remained the same for the July 1, 2016 and July 1, 2017 actuarial valuations.
 - o The interest rate assumption was developed by reviewing the Plan's current funded ratio, the 15-year projected funded ratio, the ratio of assets to benefits, the percentage of assets allocated to equities and the funding policy selected. The details of the methodology used to select the discount rate are presented in Section V of the report. As of July 1, 2017, the Plan's funded ratio of 72% (using a testing interest rate of 6.00% for all plans using the Optional funding policy), ratio of assets to benefits of 14.27, equity allocation of 45%, and 15-year projected funded ratio of 89%, resulted in a discount rate assumption of 6.00%.
- The Fund experienced an approximate annualized return of 7.08% on the market value of assets during the plan year ended June 30, 2017, which compares to the expected annualized return of 6.00%. The difference in actual versus expected return produced an asset (gain)/loss of (\$57,655).
- An actuarial valuation is based on the expectation of certain events such as salary increases, retirement, disability, mortality, termination and cost of living increases. Demographic or liability experience (gains)/losses are generated when the actual occurrence of such events differs from the expectation. During the plan year ended June 30, 2017, the fund experienced a net liability (gain)/loss of \$11,381 due to these events.



Optional Funding

Following are additional remarks on the actuarial valuation projections under the current funding policy:

Based on the closed group projections shown in Table 1, page II-1 and assuming that the sponsor makes the statutory required contributions, if all actuarial assumptions are realized in the future, including an investment return of 6.00%:

- The funded ratio is projected to increase from 72% at June 30, 2017, to 83% at June 30, 2027, and 100% at June 30, 2039.
- Employer contributions are expected to decrease steadily from \$152,227 for the fiscal year end June 30, 2019, to \$16,102 for fiscal year end June 30, 2039.

This actuarial valuation assumes that the City will be able to make future contributions on a timely basis. The ability of the Plan to become fully funded is heavily dependent on the City contributing the minimum employer contribution calculated under the Optional funding policy for each and every future year. We did not perform an analysis of the ability of the City to make future contributions. Such an analysis is not within the scope of our assignment or within our analytical skill set. Failure to receive City contributions on a timely basis could jeopardize the sustainability of the Plan.

If the minimum employer contributions (calculated under the Optional funding policy) are not made or the investment return is less than the assumption of 6.00%, the funded ratio will be lower and the cash flow strain will be higher. If another significant market downtown occurs while the plan's funded ratio is low, the plan may need to liquidate a large amount of assets in order to pay benefits which could have a further adverse effect on the funded status of the Plan.

Under the Optional funding policy, the following experience could cause City contributions to change during the year:

- If the actual return on assets is *less* than the assumed return of 6.00%, then contributions will generally *increase*. Conversely, if the actual return is *greater* than the assumed return, contributions will generally *decrease*.
- If salaries *increase* by more than assumed, contributions could *increase*. If salaries *decrease* by more than assumed, contributions could *decrease*.
- If active members retire *sooner* than expected, contributions will generally *increase*. If active members retire *later* than expected, contributions will generally *decrease*.
- If active members become disabled during the year, contributions could increase.
- If retired members die *later* than expected, contributions will increase. If retired members die *sooner* than expected, contributions will decrease.
- If the general inflation is *greater* than assumed, supplemental benefits will be greater than assumed and contributions will *increase*. Conversely, if general inflation is *lower* than assumed, contributions will *decrease*.



At least once every five years, GRS performs an experience review analysis and updates the actuarial valuation assumptions. For example, if salary increases were consistently lower than assumed during the experience period, then the salary increase rate would likely be lowered. Or if more members retired than assumed, then the retirement rates would likely be increased. Any change in actuarial assumption will also impact the City's funded ratio. The objective of a change in assumptions is to reduce the level of experience gains and losses in future actuarial valuations.



Schedule A: Summary of Key Valuation Results

Valuation Date		July 1, 2016		July 1, 2017
Valuation Interest Rate		6.00%		6.00%
Cost-of-Living Adjustment		2.75%		2.75%
Wage Inflation		3.75%		3.75%
Expected Payroll		\$535,150		\$427,525
Average Pay		\$48,650		\$53,441
Expected Benefit Payments		\$347,944		\$405,737
1. Actuarial Accrued Liability	No.		No.	
(a) Actives	11	\$2,453,796	8	\$2,175,492
(b) Retirees	7	\$3,393,598	8	\$3,967,207
(c) Survivors	1	\$127,624	1	\$124,355
(d) Disabled Members	4	\$1,755,117	4	\$1,771,445
(e) Deferred Vested Members	0	\$0	0	\$0
(f) Total	23	\$7,730,135	21	\$8,038,499
2. Present Value of Future Normal Costs		\$2,089,174		\$1,552,431
3. Present Value of Benefits (1(f) + 2)		\$9,819,309		\$9,590,930
4. Market Value of Assets		\$5,424,299		\$5,790,106
5. Unfunded Actuarial Accrued Liability (1(f) - 4)		\$2,305,836		\$2,248,393
6. Funded Ratio (4 / 1(f))		70.17%		72.03%
7. Net Employer Normal Cost				
(a) Normal Cost		\$204,003		\$163,266
(b) Administrative Expenses		\$4,478		\$4,504
(c) Gross Normal Cost (a + b)		\$208,481		\$167,770
(d) Employee Contribution Rate ^a		7.66%		7.28%
(e) Expected Employee Contributions		\$41,014		\$31,141
(f) Net Employer Normal Cost (c - e)		\$167,467		\$136,629
(% of Compensation)		31.29%		31.96%
8. Estimated Minimum Employer Contribution ^b		FYE 2018		FYE 2019
(a) Expected Payroll	_	\$535,150	_	\$427,525
(b) Estimated Employer Normal Cost		\$167,467		\$136,629
(c) Employer Normal Cost Rate		31.29%		31.96%
(d) Amortization of Unfunded Actuarial Liability		\$156,615		\$154,245
(e) State Insurance Premium Tax Allocation	_	\$131,879	_	\$138,647
(f) Estimated Employer Contribution ^c (b + d - e)		\$192,203		\$152,227

^a Blended rate reflecting 7.0% for members hired before January 1, 2010, and 9.5% for members hired after January 1, 2010.



^b Estimated Minimum Employer Contribution is based on Optional funding policy and is assumed to be made in plan year ending June 30, 2019. The actual Minimum Employer Contribution will be based on actual payroll for plan year ended June 30, 2018.

^c The Employer Contribution cannot be less than the Employer Normal Cost.

Schedule B: (Gain)/Loss Analysis

Experience (Gain)/Loss for Plan Year Ended June 30, 2017	
1. (a) Actuarial Accrued Liability as of 7/1/2016	\$7,730,135
(b) Normal Cost due 7/1/2016	\$204,003
(c) Interest on (a) and (b) to 6/30/2017	\$469,928
(d) Benefit Payments with interest to 6/30/2017	\$376,948
(e) Effect of Assumption Changes	\$0
(f) Expected Liability at $7/1/2017$ [(a) + (b) + (c) - (d) + (e)]	\$8,027,118
(g) Actual Liability at 7/1/2017	\$8,038,499
(h) Liability (Gain)/Loss [(g) - (f)]	\$11,381
2. (a) Market Value of Assets as of 7/1/2016	\$5,424,299
(b) Interest on (a) to 6/30/2017	\$325,458
(c) Contributions with interest to 6/30/2017	\$359,642
(d) Benefit Payments with interest to 6/30/2017	\$376,948
(e) Expected Assets at 6/30/2017 [(a) + (b) + (c) - (d)]	\$5,732,451
(f) Actual Assets at 7/1/2017	\$5,790,106
(g) Asset (Gain)/Loss [(e) - (f)]	(\$57,655)
3. Total (Gain)/Loss [1(h) + 2(g)]	(\$46,274)





ACTUARIAL PROJECTIONS

Actuarial Projections, Table 1

Valuation						Tota	l Assets						
Plan	Nu	mber	_					Premium Tax			Actuarial		
Year End		Pay	Assets	Benefit		Employer	Member	Allocation	Investment	Assets	Accrued	Unfunded	Funded
30-Jun	Active	Status	(boy)	Payments	Expenses	Contributions	Contributions	Contributions	Income	(eoy)	Liability	Liability	Ratio
2017	8	13	\$5,424,299	\$365,969	\$30,024	\$167,225	\$38,064	\$143,878	\$412,633	\$5,790,106	\$8,038,499	\$2,248,393	72%
2018	7	13	5,790,106	405,737	4,504	192,203	31,141	131,879	345,780	6,080,868	8,271,977	2,191,109	74%
2019	7	14	6,080,868	395,467	4,594	152,227	30,880	138,647	362,537	6,365,098	8,528,420	2,163,322	75%
2020	7	14	6,365,098	409,782	4,690	143,833	30,952	144,297	379,086	6,648,794	8,786,398	2,137,604	76%
2021	6	14	6,648,794	422,028	4,788	140,984	31,236	147,801	395,770	6,937,770	9,049,099	2,111,329	77%
2022	6	14	6,937,770	437,922	4,891	139,193	31,046	151,294	412,681	7,229,171	9,309,796	2,080,625	78%
2023	6	15	7,229,171	455,327	4,996	137,622	30,562	155,638	429,715	7,522,385	9,564,665	2,042,280	79%
2024	5	15	7,522,385	481,208	5,108	134,761	29,550	159,850	446,550	7,806,780	9,802,453	1,995,673	80%
2025	5	16	7,806,780	508,070	5,220	130,314	28,337	165,188	462,806	8,080,134	10,020,396	1,940,262	81%
2026	4	16	8,080,134	525,221	5,338	125,398	28,112	169,804	478,681	8,351,571	10,232,590	1,881,019	82%
2027	4	16	8,351,571	544,440	5,456	124,577	27,508	174,175	494,483	8,622,418	10,433,988	1,811,570	83%
2028	3	16	8,622,418	567,676	5,574	121,680	26,294	179,445	510,078	8,886,665	10,616,064	1,729,399	84%
2029	3	17	8,886,665	592,039	5,692	115,726	24,633	184,682	525,139	9,139,114	10,773,485	1,634,371	85%
2030	3	17	9,139,114	616,271	5,813	107,344	22,762	190,566	539,436	9,377,138	10,903,592	1,526,454	86%
2031	2	17	9,377,138	646,823	5,937	97,839	20,253	196,161	552,621	9,591,253	10,994,932	1,403,679	87%
2032	1	18	9,591,253	687,238	6,058	85,787	16,435	202,850	563,998	9,767,027	11,028,207	1,261,180	89%
2033	1	18	9,767,027	724,689	6,180	68,420	12,991	210,073	573,032	9,900,674	11,005,108	1,104,434	90%
2034	1	18	9,900,674	747,033	6,297	52,758	10,982	216,638	580,058	10,007,780	10,945,865	938,085	91%
2035	1	18	10,007,780	771,535	6,410	43,458	8,329	222,724	585,584	10,089,930	10,845,378	755,448	93%
2036	0	18	10,089,930	795,256	6,516	34,122	5,386	229,936	589,659	10,147,261	10,701,431	554,170	95%
2037	0	18	10,147,261	805,995	6,615	24,535	3,921	236,103	592,633	10,191,844	10,531,224	339,380	97%
2038	0	18	10,191,844	812,770	6,705	19,723	2,823	242,323	595,115	10,232,352	10,338,880	106,528	99%
2039	0	17	10,232,352	816,015	6,786	16,102	2,014	107,024	593,316	10,128,007	10,128,007	0	100%
2040	0	17	10,128,007	816,084	6,856	11,589	1,441	0	583,737	9,901,834	9,901,834	0	100%
2041	0	17	9,901,834	814,190	6,916	10,009	964	0	570,160	9,661,861	9,661,861	0	100%
2042	0	17	9,661,861	810,476	6,963	8,641	558	0	555,818	9,409,438	9,409,438	0	100%
2043	0	16	9,409,438	803,965	6,999	7,936	331	0	540,836	9,147,577	9,147,577	0	100%
2044	0	16	9,147,577	795,272	7,023	7,655	224	0	525,369	8,878,531	8,878,531	0	100%
2045	0	15	8,878,531	785,711	7,034	7,294	92	0	509,494	8,602,666	8,602,666	0	100%
2046	0	15	8,602,666	774,812	7,034	7,034	0	0	493,254	8,321,108	8,321,108	0	100%
2047	0	14	8,321,108	762,303	7,022	7,022	0	0	476,731	8,035,536	8,035,536	0	100%
2048	0	14	8,035,536	748,929	7,000	7,000	0	0	459,992	7,746,599	7,746,599	0	100%
2049	0	14	7,746,599	734,742	6,967	6,967	0	0	443,075	7,454,932	7,454,932	0	100%
2050	0	13	7,454,932	719,787	6,924	6,924	0	0	426,017	7,161,162	7,161,162	0	100%
2051	0	13	7,161,162	704,108	6,872	6,872	0	0	408,854	6,865,908	6,865,908	0	100%
2052	0	12	6,865,908	687,746	6,811	6,811	0	0	391,623	6,569,785	6,569,785	0	100%
2053	0	12	6,569,785	670,748	6,740	6,740	0	0	374,358	6,273,395	6,273,395	0	100%
2054	0	11	6,273,395	653,146	6,662	6,662	0	0	357,095	5,977,344	5,977,344	0	100%
2055	0	11	5,977,344	634,953	6,574	6,574	0	0	337,033	5,682,261	5,682,261	0	100%
2056	0	10	5,682,261	616,179	6,477	6,477	0	0	322,720	5,388,802	5,388,802	0	100%
2057	0	10	5,388,802	596,834	6,370	6,370	0	0	305,684	5,097,652	5,097,652	0	100%
2057	0	9	5,097,652	576,919		6,252	0	0	288,804			0	100%
2036	U	9	5,097,052	3/0,919	6,252	0,252	U	U	200,004	4,809,537	4,809,537	U	100%



Actuarial Projections, Table 2

Employer Contributions

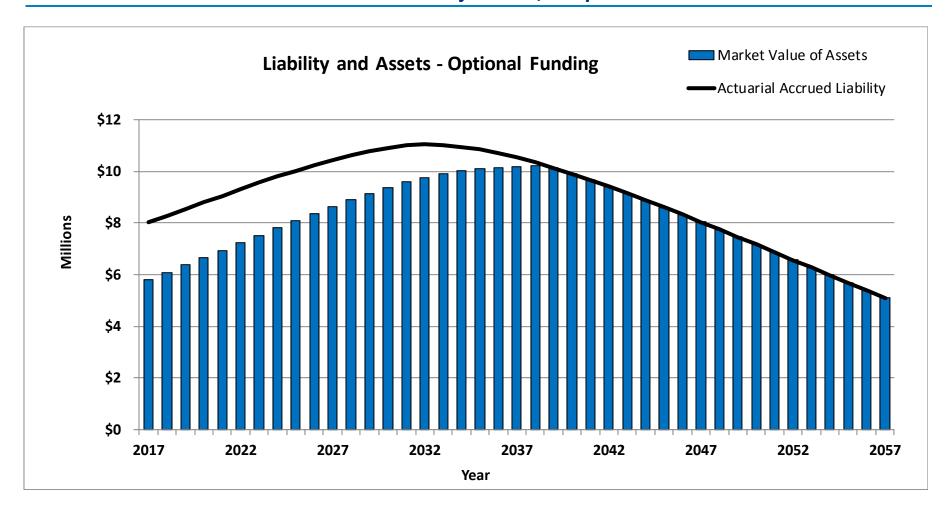
Valuation Plan	Closed	Active				Premium Tax			Employer
Year End	Group	Employee	Gross	Net Employer	Amortization	Allocation	Net Employer		Contribution
30-Jun ^a	Payroll	Contributions	Normal Cost	Normal Cost	of UAAL	Contributions	Amortization	Expenses	Closed Plan
2018	\$427,525	\$31,141	163,266	132,125	\$154,245	\$138,647	\$15,598	\$4,504	152,227
2019	423,656	30,880	162,486	131,606	151,930	144,297	7,633	4,594	143,833
2020	424,438	30,952	163,316	132,364	151,732	147,801	3,931	4,690	140,984
2021	428,128	31,236	165,154	133,918	151,781	151,294	487	4,788	139,193
2022	424,885	31,046	163,777	132,731	151,906	155,638	0	4,891	137,622
2023	417,400	30,562	160,327	129,765	151,834	159,850	0	4,996	134,761
2024	402,348	29,550	154,756	125,206	151,326	165,188	0	5,108	130,314
2025	384,410	28,337	148,515	120,178	150,321	169,804	0	5,220	125,398
2026	380,592	28,112	147,351	119,239	148,758	174,175	0	5,338	124,577
2027	371,334	27,508	143,732	116,224	146,999	179,445	0	5,456	121,680
2028	353,353	26,294	136,446	110,152	144,529	184,682	0	5,574	115,726
2029	328,970	24,633	126,285	101,652	141,097	190,566	0	5,692	107,344
2030	301,585	22,762	114,788	92,026	136,623	196,161	0	5,813	97,839
2031	265,068	20,253	100,103	79,850	131,017	202,850	0	5,937	85,787
2032	209,859	16,435	78,797	62,362	123,996	210,073	0	6,058	68,420
2033	159,965	12,991	59,569	46,578	114,967	216,638	0	6,180	52,758
2034	130,583	10,982	48,143	37,161	104,206	222,724	0	6,297	43,458
2035	97,963	8,329	36,041	27,712	91,924	229,936	0	6,410	34,122
2036	63,736	5,386	23,405	18,019	77,183	236,103	0	6,516	24,535
2037	46,382	3,921	17,029	13,108	59,299	242,323	0	6,615	19,723
2038	33,296	2,823	12,220	9,397	38,233	107,024	0	6,705	16,102
2039	23,646	2,014	8,677	6,663	0	0	0	6,786	11,589
2040	16,830	1,441	6,174	4,733	0	0	0	6,856	10,009
2041	11,088	964	4,055	3,091	0	0	0	6,916	8,641
2042	6,143	558	2,235	1,677	0	0	0	6,963	7,936
2043	3,481	331	1,267	936	0	0	0	6,999	7,655
2044	2,362	224	860	636	0	0	0	7,023	7,294
2045	966	92	351	259	0	0	0	7,034	7,034
2046	0	0	0	0	0	0	0	7,034	7,022
2047	0	0	0	0	0	0	0	7,022	7,000
2048	0	0	0	0	0	0	0	7,000	6,967
2049	0	0	0	0	0	0	0	6,967	6,924
2050	0	0	0	0	0	0	0	6,924	6,872
2051	0	0	0	0	0	0	0	6,872	6,811
2052	0	0	0	0	0	0	0	6,811	6,740
2053	0	0	0	0	0	0	0	6,740	6,662
2054	0	0	0	0	0	0	0	6,662	6,574
2055	0	0	0	0	0	0	0	6,574	6,477
2056	0	0	0	0	0	0	0	6,477	6,370
2057	0	0	0	0	0	0	0	6,370	6,252

^a Assumes employer makes contributions for the applicable valuation plan year in the following fiscal year.

^b Amount required to remain at 100% funded.

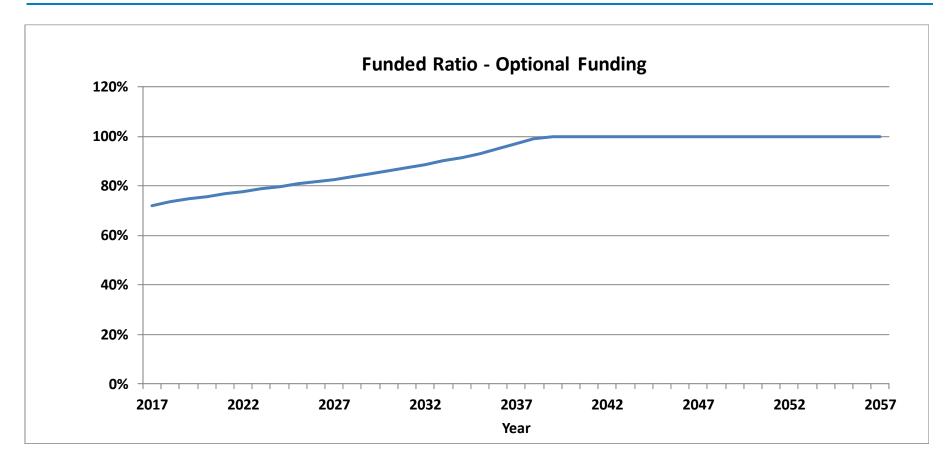


Actuarial Projections, Graph 1



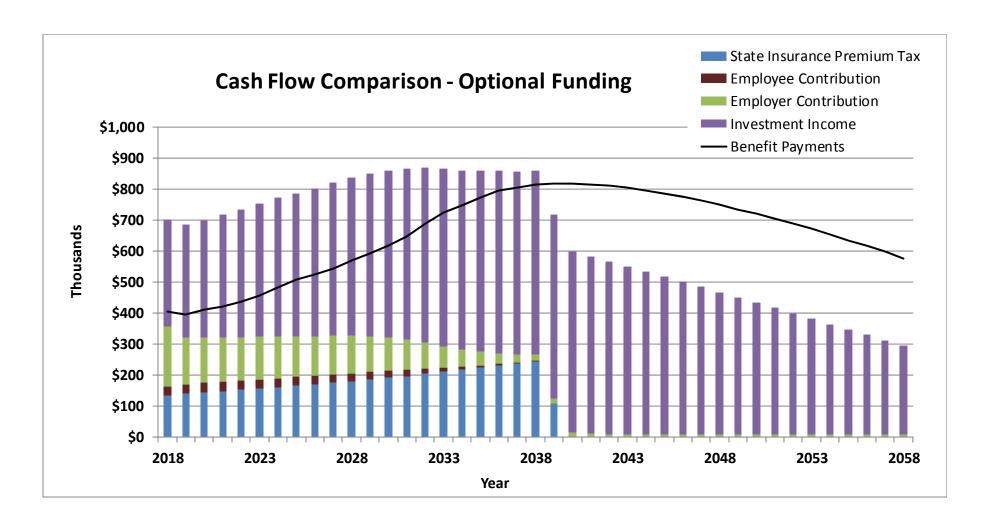


Actuarial Projections, Graph 2





Actuarial Projections, Graph 3





SECTION III

ACTUARIALLY DETERMINED CONTRIBUTION FOR GASB STATEMENT Nos. 67 and 68 Reporting

Actuarially Determined Contribution for GASB Statement Nos. 67 and 68 Reporting Schedule C: Funding Progress and Employer Contributions

Valuation Date	July 1, 2016	July 1, 2017
Valuation Interest Rate	6.00%	6.00%
Cost-of-Living Adjustment	2.75%	2.75%
Wage Inflation	3.75%	3.75%
Actuarial Value of Assets	Market	Market
Actuarial Cost Method	Entry Age Normal	Entry Age Normal
Remaining Amortization Period ^a	24 Years, Level % of Pay	23 Years, Level % of Pay
Schedule of Funding Progress		
Actuarial Valuation Date	July 1, 2016	July 1, 2017
1. Market Value of Assets	\$5,424,299	\$5,790,106
2. Actuarial Accrued Liability	\$7,730,135	\$8,038,499
3. Unfunded Actuarial Accrued Liability (2 - 1)	\$2,305,836	\$2,248,393
4. Funded Ratio (1/2)	70%	72%
5. Expected Payroll	\$535,150	\$427,525
6. UAAL as Percentage of Covered Payroll (3/5)	431%	526%
Schedule of Employer Contributions ^c	FYE 2017	FYE 2018
Actuarially Determined Contribution		
(a) Employer Normal Cost	\$167,467	\$136,629
(b) Amortization of Unfunded Actuarial Accrued Liability	\$121,616	\$122,532
(c) Actuarially Determined Contribution (ADC) (a + b)	\$289,083	\$259,161
2. Employer Contribution ^b	\$167,225	\$192,203
3. Premium Tax Allocation	\$143,878	\$131,879
4. Percentage of ADC Contributed [(2 + 3)/1(c)]	108%	125%

Suggested amortization policy to comply with GASB Statement Nos. 67 and 68 Standards. Estimated employer contribution for fiscal year ended June 30, 2018.



^c Satisfies the Actuarially Determined Contribution as defined by GASB Statement Nos. 67 and 68.

SECTION IV

ACTUARIAL VALUATION DATA AS OF JULY 1, 2017

Actuarial Valuation Data as of July 1, 2017 Schedule D: Reconciliation of Assets

Plan Year Ending	June 30, 2016	June 30, 2017
A. Market Value of Assets Beginning of Year	\$5,461,403	\$5,424,299
Adjustment to Market Value of Assets at Beginning of Year	\$0	\$0
Market Value of Assets Beginning of Year	\$5,461,403	\$5,424,299
1. Revenue During Fiscal Year		
(a) Employee Contribution	\$41,579	\$38,064
(b) Governmental Contribution		
(i) From Local Government	\$121,105	\$167,225
(ii) From State Government	\$146,458	\$143,878
(iii) Reallocation from State Government	\$0	\$0
(iv) Total	\$267,563	\$311,103
(c) Earnings on Investments		
(i) Net Appreciation/(Depreciation)	\$411	\$0
(ii) Bond Interest	\$59,661	\$0
(iii) Dividends	\$67,186	\$55,842
(iv) Net Realized Gain (Loss) on Sale/Exchange	(\$102,648)	\$79 , 550
(v) Other	\$19	\$276,868
(vi) Less Investment Expense	\$0	\$0
(vii) Total	\$24,629	\$412,260
(d) Other Revenue	\$0	\$373
(e) Net Receivable Investment Income	\$0	\$0
(f) Receivable Contribution ^a		
(i) From Employee Contributions	\$0	\$0
(ii) From Local Government	\$0	\$0
(iii) From State Government	\$0	\$0
(iv) Total	\$0	\$0
(g) Total Revenue (sum of (a) through (f))	\$333,771	\$761,800
2. Expenditures During Fiscal Year		
(a) Benefits Paid	\$331,090	\$346,539
(b) Withdrawals	\$9,934	\$19,430
(c) Administrative Expenses	\$29,851	\$30,024
(d) Payable Benefits and Withdrawals	\$0	\$0
(e) Payable Administrative Expenses	\$0	\$0
(f) Total Expenditures (sum of (a) through (e))	\$370,875	\$395,993
B. Market Value of Assets End of Year		
[A + 1(g) - 2(f)]	\$5,424,299	\$5,790,106
C. Approximate Return on Assets	(0.10)%	7.08%

 $^{^{\}it a}$ Receivable contributions for each respective plan year ending.



Actuarial Valuation Data as of July 1, 2017 Schedule E: Assets Held by Category

Plan Year Ending	June 30, 2016		June 30, 2017	
Cash and Short-term Investments	\$265,803	5%	\$179,577	3%
2. Government Securities				
(a) US Treasury Bills, Notes and Bonds	\$2,182,755		\$2,146,223	
(b) US State and Local Governmental Debt Securities	\$603,726		\$0	
(c) Foreign Governmental Debt Securities	\$0		\$0	
(d) Other	\$0		\$0	
(e) Total Government Securities (sum of (a) through (d))	\$2,786,481	51%	\$2,146,223	37%
3. Corporate Fixed Income				
(a) US Bonds	\$0		\$0	
(b) US Mortgage or other Asset Backed Securities	\$0		\$0	
(c) US Mutual Fund Shares (Bonds)	\$270,457		\$879,001	
(d) US Exchange Traded Funds (Bonds)	\$0		\$0	
(e) International Bonds	\$0		\$0	
(f) International Mutual Fund Shares (Bonds)	\$0		\$0	
(g) International Exchange Traded Funds (Bonds)	\$0		\$0	
(h) Total Corporate Fixed Income (sum of (a) through (g))	\$270,457	5%	\$879,001	15%
4. Corporate Equity				
(a) US Equity	\$0		\$0	
(b) US Mutual Fund Shares (Equity)	\$147,965		\$1,787,715	
(c) US Exchange Traded Funds (Equity)	\$1,248,572		\$0	
(d) International Equity	\$0		\$0	
(e) International Mutual Fund Shares (Equity)	\$705,021		\$797,590	
(f) International Exchange Traded Funds (Equity)	\$0	2001	\$0	450/
(g) Total Corporate Equity (sum of (a) through (f))	\$2,101,558	39%	\$2,585,305	45%
5. Alternative Investments				
(a) Real Estate Investment Trust	\$0		\$0	
(b) Private Equity Fund	\$0		\$0	
(c) Hedge Funds	\$0		\$0	
(d) Other Alternative Investments	\$0		\$0	
(e) Total Alternative Investments (sum of (a) through (d))	\$0	0%	\$0	0%
6. Other	\$0	0%	\$0	0%
7. Receivable Contributions	\$ 0			
(a) From Employee Contributions	\$0		\$0	
(b) From Local Government	\$0		\$0	
(c) From State Government	\$0		\$0	
(d) Total Receivable Contributions (sum of (a) through (c)) 8. Accruals	\$0	0%	\$0	0%
(a) Receivable (other than State and Local Contributions)	\$0		\$0	
(b) Less Payable	\$0		\$0	
(c) Total	\$0	0%	\$0	0%
Market Value of Assets End of Year [sum of (1) through (8)]	\$5,424,299		\$5,790,106	



Actuarial Valuation Data as of July 1, 2017 Schedule F: Summary of Participant Activity

	Actives	Retirees	Disabled	Deferred Vested	Spouses and Beneficiaries	Totals
Total Participants July 1, 2016:	11	7	4	0	1	23
New Actives:						0
Returned to Actives Status:						0
Data Corrections/Other Changes:						0
Vested Terminations:						0
Non-Vested Terminations:	(2)					(2)
Disabled:						0
Retirements:	(1)	1				0
Deaths with Beneficiary:						0
Deaths w/o Beneficiary:						0
Expired Annuity or Stop Payment:						0
Net Changes:	(3)	1	0	0	0	(2)
Total Participants June 30, 2017:	8	8	4	0	1	21



Actuarial Valuation Data as of July 1, 2017 Schedule G: Distribution of Active Employees by Age and Length of Service

Attained			Yea	ars of Servic	e to Valua	tion Date					\	/aluation
Age	Less than 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 35	Totals		Payroll ^a
Under 20											\$	0
20-24											\$	0
25-29											\$	0
30-34			1							1	\$	48,407
35-39			2							2	\$	109,131
40-44			1	1		1				3	\$	160,182
45-49					1					1	\$	49,776
50-54							1			1	\$	63,054
55-59											\$	0
60-64											\$	0
65-69											\$	0
Over 70											\$	0
Totals	0	0	4	1	1	1	1	0	0	8	\$	430,550
		Averages										
		Age:		42.2	years							
		Service:		12.8	years							
		Annual Pa	y:	\$53,819	a							

^a Based on payroll at beginning of plan year.



Actuarial Valuation Data as of July 1, 2017 Schedule H: Participants Summary

Active Participants	July 1, 2016	July 1, 2017	
Number of Actives	11	8	
Total Annual Pay	\$543,584	\$430,550	
Average Age	41.3	42.2	
Average Service	11.4	12.8	

Inactive Participants	J	uly 1, 2016	July 1, 2017 ^a		
Туре	No.	Annual Benefit	No.	Annual Benefit	
Retirees	7	\$222,999	8	\$259,592	
Survivors	1	\$8,536	1	\$8,536	
Disabled Members	4	\$99,757	4	\$99,757	
Deferred Vested Members	0	\$0	0	\$0	

^aData provided includes 1 non-vested member with an accumulated contributions balance of \$27,145.





ACTUARIAL ASSUMPTIONS AND METHODS

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017

Discount Rate

The following table outlines the factors used to determine the discount rate:

Funded Ratio as of Valuation Date ¹	Liquidity Ratio ²	Equity Exposure ³	Projected Funded Ratio after 15 Years ¹	Discount Rate
60% or more	10	50% or more	70% or more	6.5%
40% or more	8	40% or more	60% or more	6.0%
30% or more	6	30% or more	50% or more	5.5%
15% or more	4	n/a	40% or more	5.0%
Less than 15%	n/a	n/a	15% or more	4.5%
Less than 15%	n/a	n/a	Less than 15%	4.0%

¹Funded ratios based on a 6.0% investment return assumption for plans using an actuarially sound policy (standard or optional) and a 5.5% investment return assumption for other plans (alternative or conservation).

³Based on investment policy.

As of June 30, 2017				
Assets	\$5,790,106			
Liabilities using a 6.00% Discount Rate	\$8,038,499			
Funded Ratio	72%			
Expected Benefit Payments	\$405,737			
Liquidity Ratio	14.27			
Equity Exposure	45%			
Projected Funded Ratio after 15 years	89%			

Discount Rate	6.00%	
---------------	-------	--



²Liquidity ratio equals assets as of the actuarial valuation date divided by expected benefit payments for the year.

The premium tax allocation is projected using the following methodology:

- (1) The Base Allocation for all Pension and Relief Funds is a fixed amount equal to \$8,709,689 in all future years. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible members, which includes active members covered in either the Pension and Relief Fund or the statewide plan, Municipal Police Officers and Firefighters Retirement System ("MPFRS").
- (2) The Excess Allocation is equal to the excess of the current year premium tax assigned to all Pension and Relief Funds over the total Base Allocation. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible active and retired members covered in either the Pension and Relief Fund or the MPFRS.
- (3) We have assumed all Pension and Relief Funds will make the minimum statutory contribution requirement and will receive 100% of both the Base Allocation and the Excess Allocation assigned to the individual plan. Consequently, the projections do not include any reallocation of Expired Premium Tax Allocation for plan years beginning on and after July 1, 2019.
- (4) The total available premium tax allocation, net of expenses, as of September 1, 2018, includes a Base Allocation of \$8,709,689, an Excess Allocation of \$9,570,473, and an Expired Premium Tax Allocation of \$237,031.
- (5) For the plan year ending June 30, 2018, all Pension and Relief Funds reported a total of 1,717 eligible active members and 2,165 eligible retired members. The City of Dunbar Policemen's Pension and Relief Fund reported 14 eligible active members and 13 eligible retired members, based on the average number of plan participants for the 12-month period ending June 30, 2018. The Fund is eligible to receive a premium tax allocation of \$138,647 for the fiscal year ending June 30, 2019.
- (6) The total premium tax allocation was assumed to increase by 2.75% in calendar years ending on and after 2019.



General Inflation	2.75%			
Expected Salary Increase	General Inflation:			
	2.75% plus			
	Wage Inflation Increment:			
	1.00% plus			
Service-based Increase:	Years of			
	<u>Service</u> <u>Increase</u>			
	1 20.00%			
	2 6.50%			
	3 3.50%			
	4 2.75%			
	5-9 2.50%			
	10-29 2.00%			
	30-34 1.25%			
	after 34 years of service 0.00%			
	2.75% on first \$15,000 of Annual Benefit			
	and on the accumulated supplemental pension			
Post-retirement COLA	amounts for prior years. Assumed to be payable to all			
	members receiving payments.			
Incompany in Chata Incompany	51 /			
Increase in State Insurance	2.75% on and after year 1			
Premium Tax Allocation	·			
Cost Method	Entry-Age-Normal, Level-Percentage-of-Pay			
Amortization Policies:				
Alkamatina Di	For GASB 67/68 Accounting: 30 – Year Closed Level-			
Alternative Plans and former	Percentage-of-Pay Amortization (from July 1, 2010 – 23			
Alternative Plans that selected the	years remaining as of July 1, 2017).			
Conservation Policy	years remaining as or July 1, 2017 J.			
Standard Plans and former	For funding and GASB 67/68 Accounting: 40-Year			
Standard Plans that selected the	Closed Level-Dollar Amortization (from July 1, 1991 –			
Optional Policy	14 years remaining as of July 1, 2017)			
Spacial Colley	1. ; cars remaining as or sary 1, 2017;			
Former Alternative Plans that	For funding: 40-Year Closed Level-Dollar Amortization			
selected the Optional Policy	(from January 1, 2010 – 32.5 years remaining as of July			
	1, 2017). For GASB 67/68 Accounting: 30-Year Closed			
	Level-Percentage-of-Pay Amortization (from July 1,			
	2010 – 23 years remaining as of July 1, 2017)			



Asset Method	Market Value		
Turnover	Sample Rates – Age Rates 25 9% 35 4% 45 2% 50 0%		
Retirement	Age Rates ^a 50 45% 51-55 30% 56-59 35% 60 100% a Terminated vested participants are assumed to retire at age 50.		
Mortality	Active: RP-2014 Blue Collar Healthy Employee ^b Post-Retirement: RP-2014 Blue Collar Healthy Annuitant Disabled: RP-2014 Blue Collar Healthy Annuitant set forward four years Tables above incorporate generational mortality improvement using MP-2014 2-dimensional mortality improvement scales b Assumes 10% of deaths are duty-related and		
Disability	90% are non-duty related. Sample Rates — Age Rates ^c 30 0.22% 40 0.50% 50 0.79% ^c Assumes 60% duty related and 40% non-duty related. Also assumes 10% of non-duty disabled members receive a 20% reduction in benefits due to gainful employment.		
Percent Married	90%		
Spouse Age	Females 3 years younger than males		



Administrative Expenses	The sponsor did not appear to provide separate investment and administrative expenses. Plan year 2018 administrative expenses assumed to be equal to 15% of all reported 2017 expenses. Future expenses assumed to increase by the general inflation assumption.
Refunds Paid	Assumes non-vested inactive members as of July 1, 2017, with accumulated member contribution balances will receive a refund of their contributions during plan year end June 30, 2018.
Data Adjustments and Assumptions	Assumes refunds listed on the asset exhibits for the plan year end June 30, 2017, were paid during the plan year end June 30, 2017.
Child Beneficiaries	Future survivor widow benefits are loaded by 12% to estimate impact of benefits provided to survivor children. The load assumes 90% of members are married with two children at time of death, and benefits for each child are paid for approximately 8 years.
General Projection Methodology	Closed group projections assume: (i) Salaries will increase and members will decrement as specified in the actuarial assumption section. (ii) Assets grow at the assumed rate of return. (iii) The sponsor makes the statutory required contribution on a timely bases. (iv) Non-vested members with accumulated plan balances as of July 1, 2017, will receive a refund during plan year end June 30, 2018.
Decrement Timing	Mid-Year





SUMMARY OF PRINCIPAL PLAN PROVISIONS

Summary of Principal Plan Provisions Actuarial Valuation as of July 1, 2017

Employee Eligibility — All compensated employees of the Police Department hired before March 1, 2012 are eligible to participate in the City of Dunbar Policemen's Pension and Relief Fund.

Average Annual Compensation — The average of any three twelve-consecutive-month periods of employment which produces the highest average annual compensation.

Each twelve-consecutive-month annual compensation is limited to 120% of the *Average Adjusted Salary* received by the member in the two consecutive twelve-consecutive-month periods immediately preceding the twelve-consecutive-month period used in determining benefits.

The Average Adjusted Salary is base salary (exclusive of all overtime and other pay) of the year used in determining benefits multiplied by the ratio of total salary (includes all overtime and other pay) to base salary from the respective preceding twelve-consecutive-month period.

Determining Years of Service Credit (Credited Service**)** — The number of years that the member has contributed to the employees retirement and benefit fund.

Prior Military Service — A city may provide that members who have been honorably discharged from the military shall receive up to two years prior service credit for military service prior to their employment with the city.

Current Military Service — Any current member who has been on qualified military service in the armed forces of the United States with an honorable discharge may, within six months from his or her date of discharge, be given credit for continuous service in the paid police or fire department.

Any member who has served in active duty with the armed forces of the United States, whether prior to or subsequent to becoming a member of a paid police or fire department, shall receive one additional percent for each year so served in active military duty, up to a maximum of four additional percent.

Absence from the service because of sickness or injury for a period of two years or less shall not be construed as time out of service.

Contributions — Participating employees contribute 7.0% of compensation. Participating employees hired on or after January 1, 2010 contribute 9.5% of pay. The municipality has elected to contribute the minimum employer contribution under the Optional funding policy.

Normal Retirement — Members are eligible at the earlier of age 50 with 20 years of credited service or age 65.

Benefit Commencement — Annual retirement pension benefits commence upon retirement or upon the member attaining age fifty, whichever is later, payable in twelve monthly installments.



Summary of Principal Plan Provisions Actuarial Valuation as of July 1, 2017 (Continued)

Accrued Benefit — The annual retirement benefit equals 60% of average annual compensation, not less than \$6,000, plus an additional percentage of average annual compensation for service over 20 years equal to 2% for each year of service between 20 and 25 and 1% for each year of service between 25 and 30 years. Employees serving in the military are eligible for an additional 1% of average annual compensation for each year of military service up to four years. The maximum benefit is limited to 75% of average annual compensation. Benefits continue for life.

Disability Retirement — Members are eligible after earning five years of service. No service requirement if disability is service related.

The monthly disability benefit equals the greater of 60% of monthly salary at disability or \$500. Employees serving in the military are eligible for an additional benefit of 1% of monthly salary at disability for each year of military service up to four years. Disability benefits, when aggregated with monthly state workers compensation benefits, shall not exceed 100% of the member's monthly compensation at the time of disability. Benefits continue for life or until recovery.

Death Benefits — Members are eligible after earning five years of service. No service requirement if death is service related. Retirees and terminated vested participants are also eligible.

The benefit is equal to 60% of the participant's benefit, but not less than \$300 per month, payable to the spouse until death or remarriage. Other dependents (children, parents, brothers and sisters) are also eligible for death benefits. To each dependent child, twenty percent of the participant's benefit until the child attains 18 or marries; to each dependent orphaned child, 25 percent of the participant's benefit until the child attains 18 or marries; to each dependent parent, 10 percent of the participant's benefit for life, and to each dependent brother or sister, the sum of 50 dollars per month (but a total not to exceed \$100 per month) until such individual attains the age of 18 years or marries.

In no case shall the payments to the surviving spouse and children be reduced below 65 percent of the total amount paid to all dependents.

Supplemental Pension Benefits — All retirees, surviving beneficiaries and disability pensioners are eligible for automatic cost-of-living benefits commencing on the first day of July following two years of retirement. The benefits equal the percentage increase in the Consumer Price Index, limited to 4% (2% for some disability retirees), multiplied by the sum of the allowable amount which is the first \$15,000 of the total annual benefits paid and the accumulated supplemental pension amounts for prior years.

Termination Benefits — Any member who terminates employment prior to retirement will be entitled to a refund of contributions without interest.

Refunds — Any member who terminates from their department without receiving a retirement pension shall be refunded all deductions made from his salary, without interest.

