



Anne Arundel County Police Service Retirement Plan

Actuarial Valuation as of January 1, 2020 to
Determine the County's Contribution for the Fiscal
Year Ending June 30, 2021

Bolton

Submitted by:

Ann M. Sturner, FSA, EA
Senior Consulting Actuary
(443) 573-3922
asturner@boltonusa.com

Michael Spadaro, ASA
Actuary
(443) 573-3914
mspado@boltonusa.com

Thomas Lowman, FSA, EA
President, Bolton Retirement
(443) 573-3909
tlowman@boltonusa.com



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Employee Benefits, Actuarial & Investment Consulting

May 1, 2020

Sherri Dickerson
Director of Personnel
Anne Arundel County Government
P.O. Box 6675
Annapolis, MD 21401

Re: Police Service Retirement Plan Valuation

Dear Sherri:

The following sets forth the actuarial valuation of the Anne Arundel County Police Service Retirement Plan as of January 1, 2020. Section I of the report provides a summary while Sections II through VI contain the development of the County's contribution for the 2021 fiscal year along with a summary of the census and asset data, plan provisions, assumptions and actuarial methods. Section VII provides a glossary of many of the terms used in this report. The appendices of the report provide information on plan funding as well as a ten-year projection of benefit payments, a discussion on risk and a summary of major legislative changes.

We are available to answer any questions on the material in this report or to provide explanations or further details as appropriate. The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report. We are not aware of any direct or material indirect financial interest or relationship, including investments or other services that could create a conflict of interest, which would impair the objectivity of our work.

Respectfully submitted,

A handwritten signature in black ink that reads "Ann M. Sturner".

Ann M. Sturner, FSA, EA

A handwritten signature in black ink that reads "Michael Spadaro".

Michael Spadaro, ASA

A handwritten signature in black ink that reads "Thomas Lowman".

Thomas Lowman, FSA, EA



Section I. Executive Summary

Background

Bolton Partners, Inc. has prepared the following report that sets forth the actuarial valuation of the Anne Arundel County Police Service Retirement Plan as of January 1, 2020.

Actuarially Determined Contributions (ADC)

The actuarially determined contribution (ADC) amount increased as a dollar amount this year but decreased as a percentage of payroll. The increase in ADC as a dollar amount is primarily due to cumulative investment returns being lower than expected and higher than expected pay increases.

	FY2019	FY2020	FY2021
ADC	\$22,513,026	\$23,674,767	\$26,126,384
Percent of Total Payroll	43.5%	43.0%	42.6%

The above amounts assume the County contribution will be made monthly throughout the fiscal year.

Changes in Contribution Rate

The following table shows the sources of changes in the County's contribution rate.

Description	Contribution Rate
January 1, 2019 Valuation	43.0%
Investment Performance	1.2%
Pay Increases	0.2%
New Entrants/Change in Normal Cost	0.5%
COLA	(0.4%)
Change in Expenses	0.0%
Demographics and Other Changes	(1.9%)
January 1, 2020 Valuation	42.6%



Section I. Executive Summary

Funding Measures

Funding Measures	1/1/2019	1/1/2020	Percent Change
1. Actuarial Accrued Liability			
a. Active	\$ 260,275,778	\$ 267,880,245	2.9%
b. Retirees and Beneficiaries	448,094,223	463,770,764	3.5%
c. Total	\$ 708,370,001	\$ 731,651,009	3.3%
2. Actuarial Value of Assets	\$ 553,866,523	\$ 575,083,049	3.8%
3. Plan Funded Ratio (2. / 1.c.)	78.2%	78.6%	
4. Market Value of Assets	\$ 516,505,185	\$ 581,733,564	12.6%
5. Funded Ratio based on Market Value of Assets (4. / 1.c.)	72.9%	79.5%	

Risk Measures

Actuarial Standard of Practice No. 51 concerning pension plan risk is now in effect. Appendix 3 contains important information about various risks common to most public pension plans. Because the information is too lengthy to include in this summary, we strongly recommend reviewing the Appendix and considering whether further risk assessments are necessary.

Generally, the risk that a plan sponsor incurs from a defined benefit plan is primarily the risk of substantial increases in annual contributions. These increases occur most frequently due to variation in the investment returns. This valuation reflects the smoothing of asset returns, which reduces the risk of wide year-by-year contribution changes but does not ultimately reduce the risk inherent in a defined benefit plan. The following table shows four commonly used measures of the relative riskiness of a pension plan, relative to the plan sponsor and the employee group covered by the plan. Additional information is shown in Appendix 3.

Risk Measure	1/1/2018	1/1/2019	1/1/2020	Conservative Measures
Retiree Liability as a Percent of Total Liability	63%	63%	63%	<50%
Assets to Payroll	10.7	9.4	9.5	<5
Liabilities to Payroll	13.2	12.9	11.9	<5
Benefit Payments to Contributions ¹	1.4	1.4	1.4	1 - 3

¹ For the year ending on the date shown.



Section I. Executive Summary

Experience Analysis

The following factors affected the County's contribution as a percentage of payroll:

- Retiree COLAs effective July 1, 2019 were less than the assumed annual increases.
- Investment returns during CY2019 were about \$37.7 million higher than expected. A portion of this gain is reflected in this valuation, with the remaining portions to be reflected in future valuations. This was offset by the continued recognition of prior investment losses. There is a total of \$6.7 million in net deferred investment gains as of January 1, 2020 that will be reflected in future valuations.
- Pay for returning employees increased approximately 5.6% over the prior year; higher than what was expected.
- Total participant payroll increased by 11.3% over the prior year; more than the assumption of 3.0% growth per year.
- This report does not reflect investment losses after January 1, 2020, which have been significant so far this year. Under the current method, any investment losses (or gains) in 2020 will be phased in and reflected in next year's valuation and the FY2022 Actuarially Determined Contribution.

Changes in Method, Assumptions, and Plan Amendments

We valued DROP benefits explicitly in this valuation versus the prior method of applying load factors. There were no assumption changes since the prior valuation.

There were no plan amendments adopted that affect benefits since the prior valuation.

Projection of Expected Benefit Payments

The projection of expected benefit payments for current participants is shown in Appendix 2.

Sources of Information

The January 1, 2020 participant data and market value of assets were provided by or at the direction of Anne Arundel County. While we have reviewed this data for consistency and completeness, we have not audited this data.



Section I. Executive Summary

Actuarial Certification

This actuarial valuation sets forth our calculation of an estimate of the liabilities of the Anne Arundel County Police Service Retirement Plan (the Plan), together with a comparison of these liabilities with the value of the plan assets, as submitted by Anne Arundel County Government (the County). This calculation and comparison with assets is applicable for the valuation date only. The future is uncertain, and the plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the plan will be able to provide the promised benefits in the future.

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain and the plan's actual experience will differ from those assumptions; these differences may be significant or material because these results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

Different assumptions or scenarios within the range of possibilities may also be reasonable and results based on those assumptions would be different. As a result of the uncertainty inherent in a forward looking projection over a very long period of time, no one projection is uniquely "correct" and many alternative projections of the future could also be regarded as reasonable. Two different actuaries could, quite reasonably, arrive at different results based on the same data and different views of the future. A "sensitivity analysis" shows the degree to which results would be different if you substitute alternative assumptions within the range of possibilities for those utilized in this report. We have not been engaged to perform such a sensitivity analysis and thus the results of such an analysis are not included in this report. At the County's request, Bolton Partners, Inc. is available to perform such a sensitivity analysis.

The County is responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in this report. The County is solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

The County could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. This type of analysis would be a separate assignment.

In addition, decisions regarding benefit improvements, benefit changes, the trust's investment policy, and similar issues should not be based on this valuation. These are complex issues and other factors should be considered when making such decisions. These other factors might include the anticipated vitality of the local economy and future growth expectations, as well as other economic and financial factors.



Section I. Executive Summary

Actuarial Certification

The cost of this plan is determined by the benefits promised by the plan, the plan's participant population, the investment experience of the plan and many other factors. An actuarial valuation is a budgeting tool for the County. It does not affect the cost of the plan. Different funding methods provide for different timing of contributions to the plan. As the experience of the plan evolves, it is normal for the level of contributions to the plan to change. If a contribution is not made for a particular year, either by deliberate choice or because of an error in a calculation, that contribution can be made in later years. We will not be responsible for contributions that are made at a future time rather than an earlier time. The plan sponsor is responsible for funding the cost of the plan.

We make every effort to ensure that our calculations are accurately performed. These calculations are complex. Despite our best efforts, we may make a mistake. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

This report is based on plan provisions, census data, and asset data submitted by the County. We have relied on this information for purposes of preparing this report, but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The County is solely responsible for the validity and completeness of this information.

The County is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton Partners, Inc. has not provided any investment advice to the County.

The information in this report was prepared for the internal use of the County and its auditors in connection with our actuarial valuations of the pension plan. It is neither intended nor necessarily suitable for other purposes. Bolton Partners, Inc. is not responsible for the consequences of any other use or the reliance upon this report by any other party.

The only purpose of this report is to provide the recommended employer contribution for the 2021 fiscal year. This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, you selected an assumption based on the expected long-term rate of return on plan investments. Using a lower discount rate assumption, such as a rate based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.



Section I. Executive Summary

Actuarial Certification

Because valuations are a snapshot in time and are based on estimates and assumptions that are not precise and will differ from actual experience, contribution calculations are inherently imprecise. There is no uniquely “correct” level of contributions for the coming plan year.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the Plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the Plan in the case of Plan termination. 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.

The County should notify Bolton Partners, Inc. promptly after receipt of this report if the County disagrees with anything contained in the report or is aware of any information that would affect the results of the report that has not been communicated to Bolton Partners, Inc. or incorporated therein. The report will be deemed final and acceptable to the County unless the County promptly provides such notice to Bolton Partners, Inc.

The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. We are currently compliant with the Continuing Professional Development Requirement of the Society of Actuaries. We are not aware of any direct or material indirect financial interest or relationship, including investments or other services, which could create a conflict of interest that would impair the objectivity of our work.

We are available to answer any questions on the material in this report to provide explanations or further details as appropriate.

Ann M. Sturner, FSA, EA

Michael Spadaro, ASA

Thomas Lowman, FSA, EA



Section II. Determination of County Contributions

Derivation of Liabilities

Below is a summary of the actuarial accrued liability of the future benefits expected to be paid from the plan.

Unfunded Liability	1/1/2019	1/1/2020
1. Participants		
a. Active (excluding DROP)	638	713
b. Active DROP	61	73
c. Retirees and Beneficiaries	739	758
d. Total	1,438	1,544
2. Active Payroll	\$ 55,101,812	\$ 61,345,095
3. Actuarial Accrued Liability		
a. Active Participants	\$ 260,275,778	\$ 267,880,245
b. Retirees and Beneficiaries	448,094,223	463,770,764
c. Total	\$ 708,370,001	\$ 731,651,009
4. Actuarial Asset Value	\$ 553,866,523	\$ 575,083,049
5. Unfunded Actuarial Liability (3.c.- 4.)	\$ 154,503,478	\$ 156,567,960
6. Funded Ratio (4. ÷ 3.c.)	78.2%	78.6%



Section II. Determination of County Contributions

Projection of Unfunded Liability

The projection of the unfunded actuarial liability from January 1, 2020 to July 1, 2020, the beginning of the fiscal year, is shown below.

1.	Unfunded Liability as of January 1, 2020	\$ 156,567,960
2.	Expected County Contributions 1/1/2020 – 6/30/2020	\$ 11,837,384
3.	Expected Employee Contributions 1/1/2020 – 6/30/2020	\$ 1,922,511
4.	Expected Expenses 1/1/2020 – 6/30/2020	\$ 248,500
5.	Total Normal Cost 1/1/2020 – 6/30/2020	\$ 8,490,062
6.	Interest at 7.45%	\$ 5,793,064
7.	Projected Unfunded Liability as of July 1, 2020 (1. – 2. – 3. + 4. + 5. + 6.)	\$ 157,339,691

Development of County Contributions

The breakdown of the Actuarially Determined Contribution into normal cost, amortization payment, and expected administrative expenses is illustrated below.

Actuarially Determined Contribution		FY2021
1.	County Normal Cost as of July 1	\$ 13,330,673
2.	Expected Expenses as of July 1	\$ 504,400
3.	Amortization Amount as of July 1	\$ 11,369,311
4.	County's Contribution (1. + 2. + 3.)	\$ 25,204,384
5.	County's Contribution Adjusted for Timing of Payment (4. x 1.0745 ^ 0.5)	\$ 26,126,384
6.	County's Contribution as a Percentage of Participant Payroll	42.6%



Section II. Determination of County Contributions

Schedule of Amortization Bases

Below is a schedule of the amortization bases as of July 1, 2020.

Description	Date Established	Remaining Years		Amount to be Amortized	Payment / (Credit)
Unfunded Accrued Liability	1/1/2004	14	\$	14,877,417	\$ 1,378,812
Actuarial (Gain)/Loss	1/1/2005	15	\$	(5,744,619)	\$ (506,439)
Actuarial (Gain)/Loss	1/1/2006	16	\$	7,656,633	\$ 644,856
Actuarial (Gain)/Loss	1/1/2007	17	\$	(5,135,456)	\$ (414,763)
Actuarial (Gain)/Loss	1/1/2008	18	\$	4,352,156	\$ 338,192
Assumption Change	1/1/2008	18	\$	450,934	\$ 35,041
Actuarial (Gain)/Loss	1/1/2009	19	\$	42,334,419	\$ 3,174,466
Actuarial (Gain)/Loss	1/1/2010	20	\$	(987,974)	\$ (71,677)
Asset Method Change	1/1/2011	21	\$	25,426,500	\$ 1,788,989
Actuarial (Gain)/Loss	1/1/2011	21	\$	(14,690,246)	\$ (1,033,595)
Actuarial (Gain)/Loss	1/1/2012	22	\$	31,034,412	\$ 2,122,133
Assumption Change	1/1/2013	23	\$	5,135,438	\$ 341,941
Actuarial (Gain)/Loss	1/1/2013	23	\$	34,938,775	\$ 2,326,382
Assumption Change	1/1/2014	14	\$	6,259,250	\$ 580,096
Actuarial (Gain)/Loss	1/1/2014	14	\$	(17,681,566)	\$ (1,638,695)
Actuarial (Gain)/Loss	1/1/2015	15	\$	6,244,918	\$ 550,545
Actuarial (Gain)/Loss	1/1/2016	16	\$	3,489,818	\$ 293,919
Actuarial (Gain)/Loss	1/1/2017	17	\$	(1,544,663)	\$ (124,754)
Actuarial (Gain)/Loss	1/1/2018	18	\$	7,822,349	\$ 607,850
Actuarial (Gain)/Loss	1/1/2019	19	\$	8,806,433	\$ 660,354
Assumption Changes	1/1/2019	19	\$	1,333,525	\$ 99,995
Method Change	7/1/2019	19	\$	339,271	\$ 25,440
Actuarial (Gain)/Loss	7/1/2020	20	\$	2,621,967	\$ 190,223
Totals			\$	157,339,691	\$ 11,369,311

Bases are amortized as an equal percent of payroll each year with total payroll expected to increase 3.0% annually. The July 1, 2020 amortization payment of \$11,369,311 is sufficient to cover the interest on the plan's unfunded liability.

Bases established prior to July 1, 2019 were reported as of the date of the valuation, resulting in a difference between the date established and the remaining years. This difference does not have a material effect on the funding of the plan.



Section III. Valuation of Assets

Reconciliation of Assets

Below is a reconciliation of assets (unaudited) from January 1, 2018 through December 31, 2019.

		CY2018		CY2019
1. Beginning of Year Assets	\$	551,428,972	\$	514,361,760
2. Receipts				
a. Employer Contributions	\$	21,837,429	\$	22,997,080
b. Employee Contributions		3,357,225		3,636,181
c. Investment Income & Dividends		11,473,368		10,567,364
d. Realized and Unrealized Gain/(Loss)		(36,999,706)		64,463,565
e. Stock Loan Income		78,296		65,399
f. Other		2,910,989		3,899,979
g. Total Receipts	\$	2,657,601	\$	105,629,568
3. Deductions				
a. Benefit Payments	\$	35,937,699	\$	36,790,520
b. Administrative Expenses		464,176		530,188
c. Investment Expenses		3,322,938		3,210,311
d. Total Disbursements	\$	39,724,813	\$	40,531,019
4. Net Increase (2.g. – 3.d.)	\$	(37,067,212)	\$	65,098,549
5. Preliminary Ending Value (1. + 4.)	\$	514,361,760	\$	579,460,309
6. Contribution Receivable	\$	2,143,425	\$	2,273,255
7. End of Year Assets	\$	516,505,185	\$	581,733,564
8. Rate of Return Net of Investment Fees (2I / [A + B – I] Method)		(4.73%)		14.86%



Section III. Valuation of Assets

Calculation of Actuarial Asset Value

The actuarial asset value as of January 1, 2020 is determined by spreading the asset gain or loss for each year over a five-year period. The asset gain or loss is the amount by which the actual asset return differs from the expected asset return.

1/1/2020				
1.	Market Value of Assets		\$	581,733,564
2.	Spreading of Investment (Gain)/Loss			
	Calendar Year	(Gain)/Loss	% Deferred	Amount Deferred
	2019	\$ (37,699,630)	80%	\$ (30,159,704)
	2018	66,953,485	60%	40,172,091
	2017	(42,086,981)	40%	(16,834,792)
	2016	859,450	20%	171,890
	a. Total Deferred			(6,650,515)
3.	Actuarial Value of Assets (1. + 2.a.)		\$	575,083,049
4.	Rate of Return Net of Investment Fees (2I / [A + B – I] Method)			5.8%



Section IV. Participant Information

Participant Summary

The following table summarizes the counts, ages and benefit information for plan participants used in this valuation.

	1/1/2019	1/1/2020
1. Actives, including DROP members		
a. Number	699	786
b. Average Age	38.6	37.5
c. Average Service	12.1	11.0
d. Average Salary	\$ 78,829	\$ 78,047
2. Service Retirements and Beneficiaries		
a. Number	739	758
b. Average Age	62.8	63.3
c. Total Annual Benefits	\$ 33,500,276	\$ 35,195,382



Section IV. Participant Information

Active Age/Service Distribution Including Compensation

Shown below is the distribution of active participants, excluding those currently enrolled in DROP, based on age and service. The compensation shown is the average rate of pay as of January 1, 2020.

Age	Years of Service as of 01/01/2020										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Up	
Under 25	56	18	0	0	0	0	0	0	0	0	74
	52,530	55,300	0	0	0	0	0	0	0	0	53,204
25 - 29	38	74	31	0	0	0	0	0	0	0	143
	53,227	57,720	64,022	0	0	0	0	0	0	0	57,892
30 - 34	19	33	72	33	0	0	0	0	0	0	157
	53,310	61,249	66,640	76,361	0	0	0	0	0	0	65,937
35 - 39	8	11	17	63	16	0	0	0	0	0	115
	52,530	59,709	68,733	82,389	87,892	0	0	0	0	0	76,889
40 - 44	3	6	2	14	42	11	0	0	0	0	78
	55,319	60,248	68,196	84,645	95,267	105,177	0	0	0	0	89,834
45 - 49	3	4	2	13	23	36	4	0	0	0	85
	57,517	60,194	66,270	87,166	92,635	109,183	136,374	0	0	0	97,479
50 - 54	2	3	3	3	7	14	14	3	0	0	49
	60,896	61,125	82,594	82,369	95,514	113,815	118,047	121,390	0	0	103,651
55 - 59	0	0	0	3	2	2	0	2	0	0	9
	0	0	0	91,773	104,293	104,678	0	117,476	0	0	103,135
60 - 64	0	0	1	1	0	0	0	0	0	0	2
	0	0	69,204	93,005	0	0	0	0	0	0	81,105
65 - 69	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
70 & Up	0	0	0	0	0	0	0	0	0	1	1
	0	0	0	0	0	0	0	0	0	162,646	162,646
Totals	129	149	128	130	90	63	18	5	0	1	713
	53,161	58,593	66,696	81,877	93,503	109,370	122,120	119,824	0	162,646	74,383

Averages

Age 35.9

Service 9.4

Section IV. Participant Information

Participant Reconciliation

Shown below is the reconciliation of participants between the prior and current valuation date.

	Active Participants	DROP	Inactive Participants With Deferred Benefits	Receiving Benefits	Total
Participants in Last Valuation	638	61	0	739	1,438
Retired	(11)	(11)	0	22	0
Nonvested Termination	(24)	0	0	0	(24)
Disabled	0	0	0	0	0
Deceased	0	0	0	(13)	(13)
Beneficiary	0	0	0	7	7
Rehires	0	0	0	0	0
QDRO Put in Pay	0	0	0	2	2
Transfers Out	0	0	0	0	0
Transfers In	3	0	0	0	3
New Hires	130	0	0	0	130
Entered DROP	(24)	24	0	0	0
Left DROP	1	(1)	0	0	0
Data Adjustments	0	0	0	1	1
Participants in This Valuation	713	73	0	758	1,544



Section V. Summary of Plan Provisions

Plan Year

January 1 – December 31.

Normal Retirement Date or Unreduced Early Retirement Date

For those hired prior to February 25, 2002: 20 years of service or age 50. For those hired on or after February 25, 2002: 20 years of service, or age 50 with 5 years of service.

Normal Form of Benefit

For single participants, monthly life annuity with payments guaranteed for 5 years.

For married participants, unreduced 100% Joint & Survivor Annuity with payments guaranteed for 5 years.

Post Retirement Cost of Living Increases

For Benefits Accrued as of 1/31/1997

Retiree benefits are adjusted each year. The revised benefit amount is the lesser of:

- Base benefit multiplied by ratio of current 12 month average CPI to 12 month average CPI at retirement.
- Prior year benefit increased by 4%

For Benefits Accrued After 1/31/1997

Retiree benefits are adjusted each year. The revised benefit amount is the lesser of:

- Prior year benefit multiplied by 60% of the increase in the current March CPI from March CPI for prior year, or
- Prior year benefit increased by 2.5%.

Employee Contributions

7.25% of compensation for all employees.

Compensation

Regular annual rate of pay, exclusive of extra compensation of any kind such as overtime pay, bonuses, and commissions.

Final Earnings

The average of the highest 3 years of annual basic pay.

Benefit Formula

2 ½% of final earnings for each year of service up to 20 years plus 2% of final earnings for each year of service after 20 years (maximum 70% plus 2% times unused disability credit and pre-employment military service credit).

Termination Prior to Retirement

At less than 20 years of service, return of employee contributions with 3% interest.



Section V. Summary of Plan Provisions

Disability Benefit

Must be totally and permanently disabled (except as the result of activities specified in the County code) regardless of length of service.

Line of Duty Disability

The greater of the accrued benefit or 66 2/3% of final earnings, payable immediately, unreduced.

Non-Line of Duty Disability

The greater of the accrued benefit or 20% of final earnings, payable immediately, unreduced.

Pre-Retirement Spouse's Benefit

A death benefit is payable for a minimum of 5 years to the surviving spouse or, if there is no spouse, the unmarried minor children.

Line of Duty Death

Greater of accrued benefit or 66 2/3% of final earnings.

Non-Line of Duty Death

Accrued benefit.

Other Pre-Retirement Death Benefits

Return of employee contributions with 3% interest, plus, if the member has one or more years of credited service, a lump sum equal to 50% of final earnings.

DROP

Allows accumulation of pension after 20 years of County service. DROP period must be between three and six years (with the sixth year requiring approval for certain job classifications). Interest shall be credited to the DROP account on a monthly basis at an interest rate of 0.34745%, which provides an effective annual yield of 4.25%.

Changes Since Prior Valuation

None.

Section VI. Actuarial Methods and Assumptions

Funding Method

Projected Unit Credit Actuarial Cost Method. The contribution equals the sum of the normal cost and the amount necessary to amortize the unfunded actuarial liabilities and any actuarial gains or losses over a period of years. Amortization payments increase 3.0% per year.

Amortization Policy

The unfunded actuarial accrued liability (UAAL) is amortized as a level percentage of payroll as follows:

- Gains and losses over 20 years
- Assumption changes over 20 years
- Post-2018 plan improvements over the average expected future working period
- Early retirement incentives over 5 years or less
- Surplus, when reached, over 30 years

Asset Method

Asset smoothing method which spreads the investment gains or losses in excess of the assumed return over a five-year period. The Actuarial Value of Assets can be no less than 50% of market value of assets and no more than 150% of market value of assets. Actuarial Value of Assets recognizes adjustments resulting from an audit.

Interest

7.45% compounded annually, net of investment expenses.

Post Retirement COLA Increases

Benefits accrued before Bill 88-96 are assumed to increase by 3.0% of the original benefit each year from retirement.

Benefits accrued after Bill 88-96 are assumed to increase by 1.8% of the current benefit each year from retirement.

Mortality

Healthy

RP-2014 Blue Collar Mortality Table projected generationally using scale MP-2018. Projections to the valuation date represent current mortality and projections using scale MP-2018 beyond the valuation date represent future mortality improvement.

Disabled

RP-2014 Blue Collar Mortality Table set forward five years and then projected generationally using scale MP-2018. Projections to the valuation date represent current mortality and projections using scale MP-2018 beyond the valuation date represent future mortality improvement.

100% of pre-retirement deaths are assumed to be non-duty-related.

Section VI. Actuarial Methods and Assumptions

Salary Increases

The following graded schedule is used:

Age	Rate
20	6.0%
25	6.0%
30	5.5%
35	5.0%
40	4.5%
45	4.0%
50	4.0%

Disability

Sample rates are:

Age	Rate
30	0.3060%
35	0.4526%
40	0.9340%
45	1.5619%
50	2.2983%
55	0.0000%

75% of disablements are assumed to be duty-related.

Turnover

Sample rates are:

Age	Rate
20	7.97%
25	5.31%
30	3.51%
35	2.56%
40	1.28%
45	0.64%
50	0.00%

DROP Election Rate

75% of eligible participants are assumed to elect to enter DROP.



Section VI. Actuarial Methods and Assumptions

Retirement

Retirement rates are as follows:

Age Group	Years of Service					
	<20	20	21 – 23	24	25 – 31	32+
38 – 44	0%	26.40%	5%	9%	5%	10%
45 – 49	0%	18.34%	5%	9%	5%	10%
50	30%	36.66%	25%	29%	25%	100%
51 – 52	10%	14.66%	10%	14%	10%	100%
53	10%	22%	10%	14%	10%	100%
54	10%	22%	10%	18%	10%	100%
55	30%	30%	30%	30%	30%	100%
56 – 59	30%	30%	30%	30%	30%	100%
60	100%	100%	100%	100%	100%	100%

Disability Leave

Active liabilities (which depend on credited service) are loaded by 1.75% to account for future crediting of disability service.

Military Service

Active liabilities (which depend on credited service) are loaded by 3.25% to account for future crediting of military service.

Transferred Service

Transferred service is included in the calculation of a participant's benefit starting at the time the service is originally transferred to the County.

Marriage

80% of employees and 70% of current retired and disabled members are assumed married. Males are assumed to be four years older than their spouses.

CIGNA Benefit

Our calculations reflect that some benefits have already been purchased.

Administrative Expenses

A load for estimated administrative expenses is included in the Actuarially Determined Contribution. The load is equal to the average of actual expenses for the two years preceding the valuation date, rounded to the nearest thousand.

Rationale for Assumptions

The rationale for the demographic Assumptions is based on the results of the December 2018 Experience Study. The economic Assumptions are based on future expectations with an underlying 3.0% inflation assumption.

Changes Since Prior Valuation

We valued DROP benefits explicitly in this valuation versus the prior method of applying load factors. Any impact of this change is included in the Actuarial (Gain)/Loss amortization base.

Section VII. Glossary

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits and the Actuarial Present Value of Future Normal Costs or the portion of the present value of future benefits allocated to service before the valuation date in accordance with the actuarial cost method. Represents the present value of benefits expected to be paid from the plan in the future allocated to service prior to the date of the measurement.

Actuarial Asset Valuation Method

The method of determining the value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially determined contribution (ADC).

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits and the actuarial Present Value of Future Normal costs and the Actuarial Accrued Liability. Also known as the “funding method”. Examples of actuarial cost methods include Aggregate, Entry Age Normal, Projected Unit Credit, and Pay-as-you-go.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Aggregate Cost Method

An actuarial cost method that spreads the cost of all future benefits in excess of plan assets as a level percentage of future salary or service. The actuarial accrued liability is set to the value of assets in this method.

Annual Determined Contributions of the Employer(s) (ADC)

The employer’s periodic determined contributions to a pension plan, calculated in accordance with the assumptions and methods used by the plan actuary. The ADC replaced the actuarially required contribution (ARC), with the replacement of GASB 27 with GASB 68.

Cost-of-Living Adjustment (COLA)

An annual increase in the amount of a retired participant’s benefit intended to adjust the benefit for inflation.

Covered Group

Plan members included in actuarial valuation.

Section VII. Glossary

Deferred Retirement Option Program (DROP)

A program allowing a participant eligible to retire to continue working for a fixed period of time, while accumulating the benefit payments he would have received if he had retired on his entry to DROP.

Demographic Assumption

Assumptions regarding the future population of pension participants, including retirement, termination, disability and mortality assumptions.

Economic Assumption

Assumptions regarding future economic factors, including COLA, salary improvement, change in average wages, changes in Social Security benefits and investment returns.

Employer's Contributions

Contributions made in relation to the actuarially determined contributions of the employer (ADC). An employer has made a contribution in relation to the ADC if the employer has (a) made payments of benefits directly to or on behalf of a retiree or beneficiary, (b) made premium payments to an insurer, or (c) irrevocably transferred assets to a trust, or an equivalent arrangement, in which plan assets are dedicated to providing benefits to retirees and their beneficiaries in accordance with the terms of the plan and are legally protected from creditors of the employer(s) or plan administrator.

Entry Age Normal (EAN) Cost Method

An actuarial cost method that spreads the cost for each individual's expected benefits over their career, either as a level percentage of pay or service. The actuarial accrued liability is the accumulated value of all past normal cost, and the unfunded accrued liability (surplus) is the excess of the AAL over the value of assets.

Expenses

Plan expenses paid by the plan are divided into administrative and investment related expenses.

Funded Ratio

The actuarial value of assets expressed as a percentage of the plan's actuarial accrued liability.

GASB

Government Accounting Standards Board.

GASB No. 25 and GASB No. 27

These are the government accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems while Statement No. 25 sets the rules for the systems themselves.

Section VII. Glossary

GASB No. 67 and GASB No. 68

These are the government standards that replace GASB 25 and 27. They are effective for plan years beginning after June 14, 2013 and employer fiscal years beginning after June 14, 2014.

Investment Return Assumption or Investment Rate of Return (Discount Rate)

The rate used to adjust a series of future payments to reflect the time value of money.

Level Percentage of Projected Payroll Amortization Method

Amortization payments are calculated so that they are a constant percentage of the projected payroll of active plan members over a given number of years. The dollar amount of the payments generally will increase over time as payroll increases due to inflation; in dollars adjusted for inflation, the payments can be expected to remain level.

Normal Cost or Normal Actuarial Cost

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

Pay-as-you-go (PAYG)

A method of financing a benefits plan under which the contributions to the plan are generally made at about the same time and in about the same amount as benefit payments and expenses becoming due.

Payroll Growth Rate

An actuarial assumption with respect to future increases in total covered payroll attributable to inflation; used in applying the level percentage of projected payroll amortization method.

Plan Liabilities

Obligations payable by the plan at the reporting date, including, primarily, benefits and refunds due and payable to plan members and beneficiaries, and accrued investment and administrative expenses. Plan liabilities do not include actuarial accrued liabilities for benefits that are not due and payable at the reporting date.

Plan Members

The individuals covered by the terms of a Pension or OPEB plan. The plan membership generally includes employees in active service, terminated employees who have accumulated benefits but are not yet receiving them, and retired employees and beneficiaries currently receiving benefits.

Post-Employment

The period between termination of employment and retirement as well as the period after retirement.



Section VII. Glossary

Projected Unit Credit (PUC) Funding Method

An actuarial cost method that spreads the employee's benefit over their career, as a level percentage of service. The normal cost is the present value of the portion of the benefit assigned to the current year. The actuarial accrued liability is the accumulated value of all past normal cost, and the unfunded accrued liability (surplus) is the excess of the AAL over the value of assets.

Salary Improvement

An actuarial assumption regarding the increase in employees' salaries, reflecting cost-of-living, merit and longevity increases.

Select and Ultimate Rates

Actuarial assumptions that contemplate different rates for successive years. Instead of a single assumed rate with respect to, for example, the investment return assumption, the actuary may apply different rates for the early years of a projection and a single rate for all subsequent years. For example, if an actuary applies an assumed investment return of 8 percent for year 2000, 7.5 percent for 2001, and 7 percent for 2002 and thereafter, then 8 percent and 7.5 percent are select rates, and 7 percent is the ultimate rate.

Unfunded Actuarial Accrued Liabilities

The excess of the present value of prospective pension benefits, as of the date of a pension plan valuation, over the sum of (1) the actuarial value of the assets of the plan and (2) the present value of future normal costs determined by any of several actuarial cost methods. For plans that define an accrued liability, this amount equals the excess of the accrued liability over plan assets.

Vested Plan Benefits

All benefits to which current participants have a vested right based on pay and service through the valuation date. A participant has a vested right to a benefit if he/she would still be eligible to receive that benefit if employment terminated on the valuation date.



Appendix 1

Summary of Funding Progress

Valuation Date	(1) Actuarial Value of Assets	(2) Actuarial Accrued Liability	(3) Percentage Funded (1) / (2)	(4) Unfunded Actuarial Accrued Liability (2) - (1)	(5) Annual Covered Payroll	(6) Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll (4) / (5)
1/1/2010	\$432,176,036	\$487,575,178	88.6%	\$55,393,143	\$42,499,380	130.4%
1/1/2011	\$435,891,125	\$502,001,669	86.8%	\$66,110,544	\$42,449,204	155.7%
1/1/2012	\$430,342,941	\$526,154,978	81.8%	\$95,812,037	\$41,334,580	231.8%
1/1/2013	\$420,675,703	\$555,292,097	75.8%	\$134,616,394	\$40,521,944	332.2%
1/1/2014	\$452,075,806	\$576,387,838	78.4%	\$124,312,032	\$41,714,302	298.0%
1/1/2015	\$481,633,710	\$613,617,013	78.5%	\$131,983,303	\$48,261,635	273.5%
1/1/2016	\$498,491,072	\$635,017,447	78.5%	\$136,526,375	\$48,116,765	283.7%
1/1/2017	\$517,010,262	\$652,697,719	79.2%	\$135,687,457	\$50,560,385	268.4%
1/1/2018	\$540,292,184	\$684,386,917	78.9%	\$144,094,733	\$51,758,654	278.4%
1/1/2019	\$553,866,524	\$708,370,001	78.2%	\$154,503,477	\$55,101,812	280.4%
1/1/2020	\$575,083,049	\$731,651,009	78.6%	\$156,567,960	\$61,345,095	255.2%

Analysis of the dollar amounts of net assets available for benefits, actuarial accrued liability, and unfunded actuarial accrued liability in isolation can be misleading. Expressing the net assets available for benefits as a percentage of the actuarial accrued liability provides one indication of funding status on a going-concern basis. Analysis of this percentage over time indicates whether the plan is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. Trends in unfunded actuarial accrued liability and annual covered payroll are both affected by inflation. Expressing the unfunded actuarial accrued liability as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of Anne Arundel County's progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.



Appendix 1

Summary of Employer Contributions

Year Ended December 31	Actuarially Determined Contribution	Percentage Contributed
2014	\$18,869,731	100.0%
2015	\$19,559,952	100.0%
2016	\$20,410,901	100.0%
2017	\$20,931,078	100.0%
2018	\$21,933,942	100.0%
2019	\$23,093,892	100.0%

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows.

Actuarial cost method

Projected unit credit

Amortization Method

Level percentage of payroll (closed)

Remaining amortization period

Remaining periods range from 14 to 23 years with an average effective period of 20.4 years. Starting with new bases in 2014, Assumption changes and gains and losses are amortized over 20 years and plan changes are amortized over the average future service of the active population.

Asset valuation method

Five-year smoothed method.

Actuarial assumptions:

Investment rate of return	7.45%
Projected salary increase	Varies by age
Post-retirement cost-of-living adjustments	3.0% for pre 2/97 accruals 1.8% for post 2/97 accruals



Appendix 2

Benefit Payment Projection

The following table shows the estimated benefit payments from January 1, 2020 through December 31, 2029 based on existing members of the plan.

Calendar Year	Benefits
2020	\$45,824,000
2021	\$43,635,000
2022	\$52,556,000
2023	\$52,769,000
2024	\$52,692,000
2025	\$53,052,000
2026	\$54,486,000
2027	\$57,138,000
2028	\$59,135,000
2029	\$61,573,000

Appendix 3

ASOP 51 Disclosure

Actuarial Standard of Practice No. 51 *Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions* is effective for actuarial valuations after November 2018. The standard requires actuaries to provide information so that users of the report can better understand the potential for future results to vary from the results presented in this report and identify risks on the plan's future financial condition. This standard does not require the assessment to be based on numerical calculations.

Examples of risk common to most public plans include the following (generally listed from greatest to least risk):

- Investment risk: The potential that investment returns will be different than expected. The Trustees are well aware of this risk.
- Contribution risk: Most commonly this is associated with the potential that actual future contributions are not made in accordance with the plan's actuarially based funding policy. When this occurs, it can create negative long-term problems.
- Longevity and other demographic risks: The potential that mortality or other demographic experience will be different than expected.
- Asset/liability mismatch risk: The potential that changes in asset values are not matched by changes in the value of liabilities.
- Cash flow risks: The potential that contributions coming into the plan will not cover benefit payments. While common in well-funded plans, this still requires the use of interest, dividends or principal to cover benefit payments. When assets need to be sold (or more cash held) it can be an issue. Poorly funded plans with DROP lump sum payments can be a particular issue.

One item left off this list is "interest rate risk" (i.e., the potential that interest rates will be different than expected). This risk is common in corporate ERISA plans where funding is based on bond rates. Interest rates on bonds are still an important consideration when setting an expected return assumption and can change over time.

There are some plan maturity measures that are significant to understanding the risks associated with the plan. The following table shows four commonly used measures of the relative riskiness of a pension plan, relative to the plan sponsor and the employee group covered by the plan.

Appendix 3

ASOP 51 Disclosure

Risk Measure	1/1/2018	1/1/2019	1/1/2020	Conservative Measures
Retiree Liability as a Percent of Total Liability	63%	63%	63%	<50%
Assets to Payroll	10.7	9.4	9.5	<5
Liabilities to Payroll	13.2	12.9	11.9	<5
Benefit Payments to Contributions ²	1.4	1.4	1.4	1 - 3

The Asset Volatility Ratio (AVR) is equal to the market value of assets (MVA) divided by payroll. A higher AVR implies that the plan is exposed to greater contribution volatility. The current AVR of 9.5 indicates that a 1% asset gain/loss can be related to about 9.5% of the annual payroll. The plan currently amortizes asset gains/losses over a period of 20 years. This would result in a change in the County's contribution of about 0.7% of payroll for each 1.0% change in market assets.

The Liability Volatility Ratio (LVR) is equal to the Actuarial Accrued Liability (AAL) divided by payroll. A higher LVR implies that the plan is exposed to greater contribution volatility due to changes in liability measurements. The current LVR of 11.9 indicates that a 1% liability gain/loss can be related to about 11.9% of the annual payroll. The plan currently amortizes liability gains/losses over a period of 20 years. This would result in a change in the County's contribution of about 0.9% of payroll for each 1.0% change in AAL. As the plan approaches a 100% funded level, the AVR will converge to the LVR.

The use of payroll in these risk measures is an easily available substitute for the employer's revenue and often reflects the employer's ability to afford the plan. As shown in the table above, the Plan is not considered "low risk". Each of these measures are a measure of plan maturity. The ratios are generally outside of the "conservative" range because the plan is becoming more mature. Mature plans present more risk to plan sponsors because changes to the liability or assets will result in large changes in the unfunded liability as compared to the overall size of the employer as measured by payroll.

² For the year ending on the date shown.

Appendix 3

ASOP 51 Disclosure

If the plan or employer were interested in doing more quantitative assessment of risks, the following are example of tests that could be performed:

Scenario Test—A process for assessing the impact of one possible event, or several simultaneously or sequentially occurring possible events, on a plan's financial condition. A scenario test could show, for example, the effect of a layoff or reduction in workforce, or early retirement program.

Sensitivity Test—A process for assessing the impact of a change in an actuarial assumption on an actuarial measurement. A sensitivity analysis could demonstrate, for example, the impact of a decrease in the valuation discount rate or a change in future life expectancies.

Stochastic Modeling—A process for generating numerous potential outcomes by allowing for random variations in one or more inputs over time for the purpose of assessing the distribution of those outcomes. This type of analysis could show, for example, a range of potential future contribution levels and the likelihood of contributions increasing to a certain level.

Stress Test—A process for assessing the impact of adverse changes in one or relatively few factors affecting a plan's financial condition. A stress test could show, for example, the impact of a single year or period of several years with significant investment losses.

Appendix 4 – Summary of Major Legislative Changes

County Council Bill No. 48-89

Effective 9/13/89.

The previously combined Police and Fire plan was separated into distinct plans for each group. The reduction for retirement prior to age 50 was changed to 0.2% per month from 0.3% per month.

County Council Bill No. 34-92

Effective 6/1/92 through 8/31/92.

Participants age 50 or with at least 20 years of service could elect to retire with an additional pension equal to 1/12 of 2.5% of final earnings for the first 20 years of service, plus 1/12 of 2% of final earnings for each additional year of service. The additional amount could be taken as a pension increase, a lump sum, or as a temporary supplement to age 62. Appropriate actuarial adjustments apply.

County Council Bill No. 66-92

Effective 7/2/92.

The plan was amended to allow normal, unreduced retirement after 20 years of service. Employee contributions were increased to 6% from 5%. Participants under age 50 were not allowed to retire and receive retirement incentives (under Bill No. 34-92) in addition to unreduced retirement. They could either retire early with the incentives, or normally without the incentives.

State House Bill No. 687

Effective 7/1/90.

County employees were given the opportunity to apply for credit under the County's plan for previous service with the State of Maryland (or a political subdivision of the State).

County Council Bill 88-96

Effective 12/4/96.

The previous method of calculating cost of living increases will only apply to benefits accrued as of 1/31/97. The cost of living increase for future benefits is a compound increase equal to 60% of the annual change in the CPI, not to exceed 2.5%. Employees hired, or rehired, on or after 12/4/96 will be Tier Two employees and will have different benefits than current employees.

County Council Bill No. 80-00/ Recodification

Effective 2/25/2002.

Allows a benefit based on disability leave service and pre-plan military service to be paid over the 70% cap. Normal Retirement was changed to the earlier of 20 years of service or age 50 with 5 years of service. Elimination of Tier 2 benefits implemented a Deferred Retirement Option Program (DROP), a voluntary program that provides an alternative way to earn and receive retirement benefits.

Appendix 4 – Summary of Major Legislative Changes

County Council Bill 66-05

Effective 10/10/2005.

Reduced the contribution percentage for Category II participants from 6% to 5%.

County Council Bill 58-07

Effective 10/11/2007.

Reduced the contribution percentage for Category I participants from 6% to 5%.

County Council Bill 74-09

Effective 12/11/2009.

For non-represented members, FY2010 annual pay shall be determined by increasing FY2009 annual pay by an assumed 3% for determining the average basic pay. Clarified the limits on those entering DROP. The effective annual interest rate for the DROP account changed from 8% to 4.25% for those entering DROP on or after July 1, 2009.

County Council Bill 6-10

Effective 4/18/2010.

Provides for a disability benefit for those participants who are totally and permanently disabled as a result of qualified military service.

County Council Bill 41-10

Effective 7/1/2010.

Increased the contribution rate for Police Officers, Police Officer First Class, Police Corporals, and Police Sergeants to 7.25%.

County Council Bill No. 30-12

Effective 2/1/2013

All participants except for those in the Police Lieutenant classification shall contribute 7.25% of his or her annual basic pay in each calendar year or portion of a calendar year while an active participant is in the plan.

County Council Bill No. 67-12

Effective 2/1/2013

Participants in the Police Lieutenant classification shall contribute 7.25% of his or her annual basic pay in each calendar year or portion of a calendar year while an active participant in the plan.

Appendix 4 – Summary of Major Legislative Changes

County Council Bill No. 56-16

Effective 7/1/2016.

Allows for interest to be credited to a DROP member's account in the sixth year of DROP participation. Requires Appointing Authority approval for DROP participation in 6th year for the following classifications: Police Sergeant, Police Lieutenant, Police Captain, Police Major, Deputy Chief or Police Chief.

County Council Bill No. 78-17

Effective: 7/1/2017.

Eliminates the reduction in benefit for DROP retirees if they are reemployed in any capacity that meets the exceptions set forth in 5-1-203(c)(1). Also adds an exception under 5-1-203(c) for any retirees (including DROP participants) who are reemployed into a grant funded contractual position under 802(a)(17) of the Charter.