

# **NMI Settlement Fund**

Actuarial Valuation as of September 30, 2022

Prepared by:

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October 17, 2023



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NMI Settlement Fund – Actuarial Valuation as of September 30, 2022

As part of our engagement with the NMI Settlement Fund, we performed an actuarial valuation of the NMI Settlement Fund as of September 30, 2022. The purpose of the actuarial valuation is to project the minimum annual payments to be made by the Commonwealth of the Northern Mariana Islands (CNMI) to pay 75% of the Class Members' Full Benefits.

In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by the Fund's staff. This information includes, but is not limited to, financial information, member census data, and plan provisions. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete the results may be different and the calculations may need to be revised.

All costs, liabilities, rates of interest, and other factors for the Fund have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the Plan and reasonable expectations); and which, in combination, offer our best estimate of anticipated experience affecting the Fund.

This valuation report is only an estimate of the Fund's financial condition as of a single date. It can neither predict the Fund's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of Fund benefits, only the timing of Fund contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

The results were developed using models that use standard actuarial techniques. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in the compliance with generally accepted actuarial practice and relevant actuarial standards of practice (ASOP).

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 Fund's funded status); and changes in plan provisions or applicable law.



Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

Actuarial computations presented in this report are for the purposes of determining the recommended funding amounts for the Fund. Determinations for other purposes may be significantly different from the results contained in this report. Therefore, additional determinations may be needed for other purposes.

Milliman's work is prepared solely for the use and benefit of the NMI Settlement Fund. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exception(s):

- (a) NMI Settlement Fund may provide a copy of Milliman's work, in its entirety, to its professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the NMI Settlement Fund.
- (b) NMI Settlement Fund may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

The consultants who worked on this assignment are retirement actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Sincerely,

Reid Earnhardt, ASA, EA, MAAA

Consulting Actuary

Sincerely,

Nick Collier, ASA, EA, MAAA Principal and Consulting Actuary

### **TABLE OF CONTENTS**

Section			Page
T	VALUATION S Introduction		1
	Highlights	in thing	1
		nationmptions	
	Funding Metho	od	4
Ш	VALUATION E		
	Exhibit 1.	Summary of Fund Assets	5
	Exhibit 2.	Changes in Fund Assets	6
	Exhibit 3.	Summary of Census Data	
	Exhibit 4.	Reconciliation of Census Data	
	Exhibit 5.	Projected Benefit Payments	9
	Exhibit 6.	Projected Fund Balance	10
VI	APPENDICES		
	Appendix A.	Summary of Pension Plan	11
	Appendix B.	Actuarial Cost Method and Assumptions	
	Appendix C.	Risk Disclosure	16

#### **INTRODUCTION**

Milliman, Inc. has been retained by the NMI Settlement Fund to provide an actuarial valuation of the Fund. The NMI Settlement Fund was created to pay pension benefits to members of the Northern Mariana Islands Retirement Fund who opted to become members of the NMI Settlement Fund.

Section 4.0 of the settlement agreement that created the NMI Settlement Fund requires the Commonwealth of the Northern Mariana Islands (CNMI) to make minimum annual payments each year to pay 75% of the Class Members' Full Benefits. The payments for Fiscal Years Ending 2014 and 2015 were fixed at \$25,000,000 and \$27,000,000, respectively. The payments after Fiscal Year Ending September 30, 2015 are to be determined by an independent actuary.

#### In our valuation we:

- Summarize the membership data.
- Estimate the future annual benefits to be paid by the NMI Settlement Fund.
- Review the current Fund balance.
- > Project the fund balance forward for the expected life of the NMI Settlement Fund.
- Determine the minimum annual payments to be made by CNMI.

The results contained in this report represent our best estimates. However, it is likely that actual experience will vary from these estimates. To the extent that actual experience differs from the anticipated experience, actual plan costs will vary as well.

#### **HIGHLIGHTS**

- Starting in FY 2018, the Settlement Fund essentially became a "pay as you go" entity, as the CNMI minimum payments are approximately equal to the pension payments (at 75%). A payment of \$38,000,000 was made for fiscal year 2022. We have determined that the minimum annual payment from CNMI should be \$36,000,000 for the fiscal year ending September 30, 2023.
- > The minimum payment for fiscal year 2024 is estimated to be \$34,000,000 and is expected to decline each year thereafter as shown below:

Fiscal Year Ending September 30,	Estimated Minimum Payment	
2024	\$ 34,000,000	
2025	\$ 32,000,000	
2026	\$ 30,000,000	
2027	\$ 28,000,000	
2028	\$ 26,000,000	
2029	\$ 24,000,000	
2030	\$ 22,000,000	
2031	\$ 20,000,000	
2032	\$ 18,000,000	
2033	\$ 16,000,000	
2034	\$ 14,000,000	
2035	\$ 13,000,000	

This work product was prepared solely for the NMI Settlement Fund for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends that third parties hire their own actuary or other qualified professional when reviewing this Milliman work product.

#### **SECTION I. VALUATION SUMMARY**

- From the fiscal year ending September 30, 2036, to the fiscal year ending September 30, 2044, CNMI payments are expected to be \$12,000,000 per year. For fiscal years ending September 30, 2045 and later, CNMI payments are estimated to be equal to the benefits and expenses paid by the NMI Settlement Fund. Exhibit 6 shows the projected Fund balance for the next 40 years.
- ➤ Investment market gains and losses for the period October 1, 2022 to September 30, 2023, are not reflected in this actuarial valuation as of September 30, 2022. The investment experience for the period October 1, 2022 to September 30, 2023 will be reflected in the next actuarial valuation as of September 30, 2023.

# **RESULTS OF VALUATION**

	September 30, 2022	September 30, 2021
Participant Counts		
Active Employees (Class I)	48	45
Active Employees (Class II)	3	4
Total Active Employees	51	49
Retirees	2,593	2,653
Vested Terminees	48	<u>51</u>
Total Participants	2,692	2,753
Market Value of Assets	\$121,110,012	\$141,200,366
Benefit Payments from NMI Settlement Fund	\$39,486,943	\$40,688,018
CNMI Annual Payments		
FYE September 30, 2014	\$25,000,000	\$25,000,000
FYE September 30, 2015	27,000,000	27,000,000
FYE September 30, 2016	30,000,000	30,000,000
FYE September 30, 2017	33,000,000	33,000,000
FYE September 30, 2018	45,000,000	45,000,000
FYE September 30, 2019	44,000,000	44,000,000
FYE September 30, 2020	42,000,000	42,000,000
FYE September 30, 2021	40,000,000	40,000,000
FYE September 30, 2022	38,000,000	38,000,000
Projected CNMI Payments		
FYE September 30, 2023	36,000,000	36,000,000
FYE September 30, 2024	34,000,000	34,000,000
FYE September 30, 2025	32,000,000	32,000,000
FYE September 30, 2026	30,000,000	30,000,000

(see Exhibit 6 for fiscal years ending September 30, 2027 and later)

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3

#### **ACTUARIAL ASSUMPTIONS**

The following are the major assumptions used in the actuarial valuation. The assumptions are generally the same as those used in the 2012 actuarial valuation performed by the prior actuary, as stated in the audited financial statements of the Northern Mariana Islands Retirement Fund for the fiscal year ending September 30, 2012, except where indicated below. To the extent that actual experience differs from the assumptions below, future pension costs will differ.

<u>Expected Investment Return</u>: We have used the investment return assumption provided by the investment consultant of 5.75%.

<u>Mortality</u>. The mortality table used is the PubG-2010 table set forward 5 years for males and females, using 130% of the rates for ages 60 to 75, and 50% of the MP-2020 projection scale from 2020 onward.

Salary Increases. Salaries are not assumed to increase in future years.

Retirement Age. The earlier of age 62, if eligible, or 25 years of vesting service.

<u>Administrative Expenses</u>. Administrative expenses and fees are assumed to be \$1,598,712 for fiscal year ending September 30, 2023, and are assumed to remain at that level until the fiscal year ending September 30, 2040, after which they are assumed to be 8.4% of benefit payments.

<u>Rates of Withdrawal and Disability</u>. The assumed rates of withdrawal and disability are shown in Appendix B.

<u>Probability of Marriage</u>. We have assumed that 75% of participants are married and that males are 5 years older than their female spouses. For the prior valuation we assumed that 94% of participants are married.

A complete summary of actuarial assumptions is in Appendix B.

#### **FUNDING METHOD**

Section 4.0 of the settlement agreement that created the NMI Settlement Fund requires the Commonwealth of the Northern Mariana Islands (CNMI) to make minimum annual payments each year to pay 75% of the Class Members' Full Benefits. The payments for fiscal years ending 2014 and 2015 were fixed at \$25,000,000 and \$27,000,000, respectively. The payments after fiscal years ending 2015 are to be determined by an independent actuary. For fiscal years ending 2016, 2017, 2018, 2019, 2020, 2021, and 2022, CNMI made payments of \$30,000,000, \$33,000,000, \$45,000,000, \$44,000,000, \$42,000,000, \$40,000,000, and \$38,000,000 respectively. The payment for fiscal year ending 2023 is \$36,000,000.

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4

### **EXHIBIT 1. SUMMARY OF FUND ASSETS**

Listed below are the assets reported for the NMI Settlement Fund in the Fund's financial statements.

	Sep	tember 30, 2022	September 30, 2021		
ASSETS					
Current Assets					
Cash	\$	10,480,589	\$	11,040,020	
Receivables, net		139,182		139,891	
Due from CNMI Government		0		0	
CNMI judicial building loan receivable		0		492,875	
Investments		110,488,126		129,563,486	
Prepaid expenses	_	72,305		68,234	
Total current assets	\$	121,180,202	\$	141,304,506	
Property and equipment	\$	255,171	\$	276,695	
Total Assets	\$	121,435,373	\$	141,581,201	
LIABILITIES					
Current Liabilities					
Accounts payable and accrued expenses		325,361		380,835	
TOTAL NET ASSETS	\$	121,110,012	\$	141,200,366	
Assets Temporarily Restricted	_	30,325		30,325	
UNRESTRICTED NET ASSETS	\$	121,079,687	\$	141,170,041	
UNKESIKICIED NEI ASSEIS	Φ	121,013,001	Φ	141,110,041	

### **EXHIBIT 2. CHANGES IN FUND ASSETS**

Assets increase or decrease each year due to employer contributions, investment income, benefit payments to retiring participants, plan expenses paid by the trust fund, and any realized and unrealized gains and losses from investments.

	FISCAL YEAR ENDING				
	Sor	otember 30, 2022		tember 30, 2021	
	Sel	Diember 30, 2022	Sep	itember 30, 2021	
Beginning Balance	\$	141,170,041	\$	130,753,753	
Contributions and Payments					
CNMI Government Contribution		38,000,000		40,000,000	
Employer supplemental payments		1,468,741		1,421,435	
Active Settlement Class Member contributions	_	459,85 <u>8</u>		459,920	
Total contributions		39,928,599		41,881,355	
Investment Income					
Interest and dividends		(23,275,306)		4,863,591	
Net appreciation in fair value of investments		4,231,644	_	5,630,681	
Total investment income		(19,043,662)		10,494,272	
Other Additions					
CNMI Government Contribution (APGA)		0		0	
Local interest income		14,181		73,918	
Rental and other income		96,183		111,343	
Net assets released from restriction		13,223,009		13,561,428	
Total other additions		13,333,373		13,746,689	
TOTAL ADDITIONS		34,218,310		66,122,316	
Benefit Payments					
Retirement benefits		43,877,495		45,497,849	
Survivors benefits		8,509,318		8,415,369	
Disability benefits		252,593		278,510	
Death lump sum distributions		69,868		52,238	
Refunds	_	678	_	5,480	
Total benefit and refund payments		52,709,952		54,249,446	
Other Deductions					
Personnel expenses		881,029		812,787	
Professional expenses		476,804		310,453	
General and administrative expenses	_	240,879	_	333,342	
Total other deductions		1,598,712		1,456,582	
TOTAL DEDUCTIONS		54,308,664		55,706,028	
Ending Balance	\$	121,079,687	\$	141,170,041	

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# **EXHIBIT 3. SUMMARY OF CENSUS DATA**

	September 30, 2022	September 30, 2021
Active Employees		
Class 1	48	45
Class 2	3	4
Total	51	49
Average age	53.4	53.2
Average service	20.9	23.5
Total salary	\$ 2,516,210	\$ 2,440,502
Retirees		
Healthy retiree	1,758	1,833
Disabled retiree	17	19
Back to service retirees	21	22
Surviving spouse	701	694
Child pensioner	<u>95</u>	<u>85</u>
Total	2,592	2,653
Vested Terminees	48	51
Average age <sup>1</sup>	66.6	65.8
Average remaining life expectancy (years) <sup>1</sup>	16.6	16.8
Annual benefit payments at 100%	\$ 53,060,333	\$ 54,754,306
Annual benefit payments at 75%	\$ 39,765,250	\$ 41,065,730

Average age and average remaining life expectancy are averaged over healthy retirees, disabled retirees, back to service retirees, surviving spouses, child pensioners, and vested terminees.

# **EXHIBIT 4. RECONCILIATION OF CENSUS DATA**

	Actives	Healthy Retirees <sup>1</sup>	Disabled Retirees	Surviving Spouses	Child Pensioners	Vested Terminees	Total
As of 9/30/21	49	1,855	19	694	85	51	2,753
New Participants		1		3	23		27
Return to Work	7					(1)	6
Termination							0
Retirement	(3)	5				(2)	0
Disabled Retiree to Healthy Retiree		1	(1)				0
Deaths with Beneficiary	(2)	(33)		35			0
Deaths without Beneficiary		(49)	(1)	(28)			(78)
Benefits Expired/Lapsed				<u>(3)</u>	<u>(13)</u>	<u></u>	(16)
As of 9/30/22	51	1,780	17	701	95	48	2,692

<sup>&</sup>lt;sup>1</sup> Includes healthy retirees and back to service retirees.

### **EXHIBIT 5. PROJECTED BENEFIT PAYMENTS**

Fiscal Year Ending 9/30	Active Employee Count*	Active Employee Salary	Current Retirees and VTs*	Future Retirees from Active	Total Retirees and VTs*	Benefit Payments at 75%
2023	51.0	\$2,456,210	2,641.0	-	2,641.0	\$39,795,250
2024	25.3	941,224	2,589.4	26.4	2,615.8	38,850,569
2025	22.7	845,454	2,543.0	28.7	2,571.7	37,871,580
2026	21.3	803,431	2,492.4	29.8	2,522.2	36,810,047
2027	20.0	731,924	2,436.9	30.9	2,467.8	35,691,836
2028	18.6	646,881	2,360.8	32.0	2,392.8	34,520,314
2029	17.5	576,037	2,285.3	32.9	2,318.2	33,335,934
2030	11.8	361,128	2,205.7	38.3	2,244.0	32,077,956
2031	10.9	331,370	2,132.3	38.9	2,171.2	30,804,916
2032	10.0	305,484	2,054.1	39.5	2,093.6	29,509,349
2033	9.1	267,605	1,981.5	40.1	2,021.6	28,222,764
2034	5.5	170,743	1,903.7	43.2	1,946.9	26,889,905
2035	5.5	169,467	1,824.8	42.8	1,867.6	25,562,748
2036	5.5	168,332	1,744.2	42.3	1,786.5	24,234,803
2037	3.0	96,262	1,664.2	44.2	1,708.4	22,883,308
2038	2.9	95,628	1,583.1	43.6	1,626.7	21,553,386
2039	2.9	94,971	1,499.2	42.9	1,542.0	20,230,574
2040	2.1	66,392	1,415.7	42.9	1,458.6	18,932,490
2041	2.1	65,867	1,333.2	42.1	1,375.2	17,653,889
2042	1.3	25,557	1,251.0	41.9	1,292.9	16,381,385
2043	0.6	12,760	1,168.6	41.6	1,210.2	15,141,018
2044	0.6	12,636	1,088.4	40.5	1,128.9	13,934,835
2045	0.6	12,507	1,009.7	39.3	1,049.1	12,773,984
2046	-	-	933.1	38.7	971.8	11,656,076
2047	-	-	858.8	37.4	896.2	10,589,873
2048	-	-	787.2	36.0	823.2	9,578,087
2049	-	-	718.6	34.6	753.2	8,622,651
2050	-	-	653.1	33.1	686.2	7,725,122
2051	-	-	590.9	31.6	622.5	6,886,430
2052	-	-	532.2	30.0	562.2	6,106,994
2053	-	-	476.9	28.4	505.3	5,386,598
2054	-	-	425.1	26.7	451.9	4,724,491
2055	-	-	376.9	25.1	401.9	4,119,390
2056	-	-	332.1	23.4	355.5	3,569,552
2057	-	_	290.7	21.8	312.5	3,072,975
2058	-	-	252.8	20.2	273.0	2,627,384
2059	-	-	218.2	18.6	236.8	2,230,282
2060	-	-	186.9	17.0	203.9	1,878,938
2061	-	-	158.7	15.5	174.2	1,570,435
2062	_	_	133.7	14.0	147.7	1,301,746
	re as of the begir	nning of the fiscal y		1 7.0		1,001,140

<sup>\*</sup> Counts are as of the beginning of the fiscal year.

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### **EXHIBIT 6. PROJECTED FUND BALANCE**

Fiscal Year Ending	Beginning Balance			Investment Earnings	Benefit Payments	Expenses & Fees	Ending Balance
9/30					at 75%		
2023	\$121,079,687	\$36,000,000	\$1,024,047	\$6,836,447	(\$39,795,250)	(\$1,598,712)	\$123,546,219
2024	123,546,219	34,000,000	383,059	6,929,504	(38,850,569)	(1,598,712)	124,409,501
2025	124,409,501	32,000,000	344,083	6,948,668	(37,871,580)	(1,598,712)	124,231,960
2026	124,231,960	30,000,000	326,980	6,910,987	(36,810,047)	(1,598,712)	123,061,168
2027	123,061,168	28,000,000	297,878	6,817,478	(35,691,836)	(1,598,712)	120,885,976
2028	120,885,976	26,000,000	263,268	6,667,591	(34,520,314)	(1,598,712)	117,697,809
2029	117,697,809	24,000,000	234,436	6,459,993	(33,335,934)	(1,598,712)	113,457,592
2030	113,457,592	22,000,000	146,972	6,192,333	(32,077,956)	(1,598,712)	108,120,229
2031	108,120,229	20,000,000	134,861	5,864,186	(30,804,916)	(1,598,712)	101,715,648
2032	101,715,648	18,000,000	124,326	5,475,367	(29,509,349)	(1,598,712)	94,207,280
2033	94,207,280	16,000,000	108,910	5,022,682	(28,222,764)	(1,598,712)	85,517,396
2034	85,517,396	14,000,000	69,489	4,502,700	(26,889,905)	(1,598,712)	75,600,968
2035	75,600,968	13,000,000	68,970	3,941,897	(25,562,748)	(1,598,712)	65,450,375
2036	65,450,375	12,000,000	68,508	3,367,653	(24,234,803)	(1,598,712)	55,053,021
2037	55,053,021	12,000,000	39,177	2,807,817	(22,883,308)	(1,598,712)	45,417,995
2038	45,417,995	12,000,000	38,919	2,292,031	(21,553,386)	(1,598,712)	36,596,847
2039	36,596,847	12,000,000	38,651	1,822,838	(20,230,574)	(1,598,712)	28,629,050
2040	28,629,050	12,000,000	27,020	1,401,675	(18,932,490)	(1,598,712)	21,526,543
2041	21,526,543	12,000,000	26,807	1,033,139	(17,653,889)	(1,490,743)	15,441,857
2042	15,441,857	12,000,000	10,401	722,471	(16,381,385)	(1,383,290)	10,410,054
2043	10,410,054	12,000,000	5,193	471,665	(15,141,018)	(1,278,550)	6,467,344
2044	6,467,344	12,000,000	5,143	282,564	(13,934,835)	(1,176,696)	3,643,519
2045	3,643,519	12,000,000	5,090	156,385	(12,773,984)	(1,078,671)	1,952,340
2046	1,952,340	10,688,007	-	56,130	(11,656,076)	(984,271)	56,130
2047	56,130	11,427,982	-	-	(10,589,873)	(894,238)	-
2048	-	10,386,887	-	-	(9,578,087)	(808,800)	-
2049	-	9,350,772	-	-	(8,622,651)	(728,121)	-
2050	-	8,377,453	-	-	(7,725,122)	(652,331)	-
2051	-	7,467,940	-	-	(6,886,430)	(581,509)	-
2052	-	6,622,685	-	-	(6,106,994)	(515,691)	-
2053	-	5,841,458	-	-	(5,386,598)	(454,859)	-
2054	-	5,123,440	-	-	(4,724,491)	(398,949)	-
2055	-	4,467,243	-	-	(4,119,390)	(347,853)	-
2056	-	3,870,974	-	-	(3,569,552)	(301,423)	-
2057	-	3,332,466	-	-	(3,072,975)	(259,491)	-
2058	-	2,849,248	-	-	(2,627,384)	(221,864)	-
2059	-	2,418,613	-	-	(2,230,282)	(188,331)	-
2060	-	2,037,600	-	-	(1,878,938)	(158,663)	-
2061	-	1,703,047	-	-	(1,570,435)	(132,612)	-
2062	-	1,411,669	-	-	(1,301,746)	(109,923)	-

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#### APPENDIX A. SUMMARY OF PLAN PROVISIONS

The following description is a brief summary of the provisions of the Northern Marinas Islands Retirement Plan, as shown in the audited financial statements for the NMI Retirement Fund for the Fiscal Year Ending September 30, 2012.

<u>Membership</u>: Class II members are all persons who were Fund members prior to the effective date of Public Law 6-17 and who did not choose to become Class I members.

<u>Membership Service</u>: Service is earned for actual compensated government employment after becoming a Fund member. 1/12 year of service is earned for each month of employment.

#### **Benefit Formulas:**

<u>Class I Formula</u>: The sum of (i) and (ii) below, but not less than \$6,000 nor greater than 85% of average annual salary.

- (i) The sum of 2.5% of average annual salary for each of the first 25 years of service with a maximum of 50% of average annual salary, plus
- (ii) 2.5% of average annual salary for each year of service in excess of 25 years.

The minimum amount of service retirement annuity payable by the Fund is \$6,000 per year. The maximum retirement annuity is 85% of "average annual salary."

<u>Class II Formula</u>: The sum of (i) and (ii) below, but not less than \$6,000 nor greater than 85% of average annual salary.

- (i) The sum of 2% of average annual salary for each of the first 10 years of service and 2.5% of average annual salary for each year of service in excess of 10 years, plus
- (ii) Twenty dollars (\$20) for each year of service reduced by 1/100<sup>th</sup> of 1% for each dollar that average annual salary exceeds \$6,000.

The minimum amount of service retirement annuity payable by the Fund is \$6,000 per year. The maximum retirement annuity is 85% of "average annual salary."

Class II members receive the greater of the benefit determined using the Class II formula or the benefit determined using the Class I formula as if all service had been rendered as a Class I member.

**Average Annual Salary:** Average of three highest annual salaries, or \$6,000, whichever is greater.

# **Normal Retirement:**

<u>Eligibility</u>: Eligibility for Class I benefit is age 62 and 10 years of contributing membership after May 7, 1989. Eligibility for Class II benefit is age 60 or 25 years of membership service.

Form of Benefit: Payment is in the form of a life annuity.

### **Early Retirement:**

<u>Eligibility</u>: Eligibility for Class I early retirement is age 52 and 10 years of membership service or 25 years of membership service. At least 10 years of membership service must be earned after May 7, 1989. Class II members are not eligible for early retirement.

<u>Amount of Benefit</u>: Same as normal retirement benefit, except reduced by an actuarially determined amount (3%) for each month the member is under 62 years of age.

Form of Benefit: Same as normal retirement benefit.

### **Termination:**

<u>Eligibility</u>: Eligibility for Class I termination benefit is 10 years of contributing membership service. Eligibility for Class II termination benefit is 3 years of vesting service.

Amount of Benefit: Same as normal retirement benefit.

<u>Form of Benefit</u>: Same as normal retirement benefit, except the annuity commences at age 62 for Class I members and age 60 for Class II members.

### **Disability Retirement:**

<u>Eligibility</u>: Members who are less than age 62, who are totally and permanently disabled and, in the case of non-occupational causes, who accumulate at least 5 years of membership service.

Amount of Benefit: 50% of the member's salary in effect as of the date of disability or 66 2/3% of member's salary in effect if individual became a member prior to December 5, 2003. At age 62, the member will receive a normal retirement benefit calculated assuming service had continued to age 62 at the same salary received at the time of disability and the Class I formula is used. Disability benefits will be reduced by the U.S. Social Security System, Workers' Compensation or other disability insurance payments.

Form of Benefit: Same as normal retirement benefit.

### **Survivor's Benefits:**

<u>Eligibility</u>: Members who were active employees with at least 18 months of service for Class I and at least 3 years of service for Class II, or members who were receiving retirement or disability benefits.

<u>Amount of Benefit</u>: A surviving spouse will receive 50% of the member's normal retirement benefit, or benefit being paid at death, but not less than \$6,000 per year. Each surviving minor child (with a maximum of three children) will receive the greater of \$1,080 and 16 2/3% of the member's normal retirement benefit or the benefit being paid at death.

<u>Form of Benefit</u>: The surviving spouse benefit will commence immediately if there are minor children, otherwise at the spouse's attainment of age 35, and continues until remarriage or death. Payment will be in the form of a life annuity.

The children's benefit commences immediately and continues until the respective child's attainment of age 18 (age 22 if a full-time student) unless the child is disabled.

#### **Lump Sum Death Benefit:**

<u>Eligibility</u>: Members who were active employees or members who were receiving retirement or disability benefits.

<u>Amount of Benefit</u>: A lump sum of \$1,000 plus, if there is no surviving spouse or children, a refund, reduced by pension payments already received, of 1/3<sup>rd</sup> of the accumulated employee contributions with interest.

<u>Contributions</u>: Class I members who are active employees contribute 10.5% per year. Class II members who are active employees contribute 11% per year.

# APPENDIX B. ACTUARIAL COST METHOD AND ASSUMPTIONS

Actuarial Cost Method Investment Return	n/a	n/a		
Investment Return				
	5.75% for all future years	4.37% for all future years		
Salary Increases	No future salary increases	No future salary increases		
Mortality	PubG-2010 set forward 5 years for Males and Females, using 130% the rates for ages 60 to 75, and 50% of the MP-2020 projection scale from 2020 onward			
Retirement Age	Class I Members Earlier of age 62, if eligible, or 25 years of vesting service.	Class I Members Earlier of age 62, if eligible, or 25 years of vesting service.		
	Class II Members Earlier of age 60, if eligible, or 25 years of vesting service.	Class II Members Earlier of age 60, if eligible, or 25 years of vesting service.		
Marital Status	75% of participants are assumed to be married and males are assumed to be 5 years older thar female spouses.	94% of participants are assumed to be married and males are assumed to be 5 years older than female spouses.		
Survivor Benefit – Minor Children	Married retirees are assumed to have two minor children aged 13 retirement.  Married employees are assumed to have two minor children aged upon death from active status.  Children are assumed remain full time students through age 22.	retirement.  Married employees are assumed to have two minor children aged 13 upon death from active status.		
Turnover	Age         Age           20         .1303           25         .1078           30         .0858           35         .0683	Age         Rate           20         .1303           25         .1078           30         .0858           35         .0683		
	40 .0508 45 .0333 50 .0158 55 & up .0000	40 .0508 45 .0333 50 .0158 55 & up .0000		

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	Sep	tember 30, 2	2022	September 30, 2021			
Disability	<u>Age</u> 25 30 35	<u>Male</u> .00020 .00023 .00035	Female .00021 .00036 .00061	<u>Age</u> 25 30 35	<u>Male</u> .00020 .00023 .00035	<u>Female</u> .00021 .00036 .00061	
	40 45 50	.00060 .00112 .00310	.00093 .00135 .00185	40 45 50	.00060 .00112 .00310	.00093 .00135 .00185	
	55 60	.00334	.00261	55 60	.00334	.00261	
Cost of Living Adjustment	None			None			
Administrative Expenses	Year Endin to Fiscal Yo 30, 2040, the	2 per year frong September ear Ending September ear Ending September hen remainin	r 30, 2023 eptember g a	Year Endin to Fiscal Ye 30, 2040, the	2 per year from ng September ear Ending S hen remainin ercentage of	r 30, 2022 eptember g a	
Disability Benefit Amount	62, the ber	ed members unefit amount and to be equal ount before a	after age 62 to the	62, the ber	ed members unefit amount and to be equal ount before a	after age 62 to the	

#### APPENDIX C. RISK DISCLOSURE

The purpose of this appendix is to identify, assess, and provide illustrations of risks that are significant to the Settlement Fund, and in some cases to the Fund participants.

The results of the actuarial valuation are based on one set of reasonable assumptions. However, it is almost certain that future experience will not exactly match the assumptions. As an example, life expectancies may be longer or shorter than anticipated. It is therefore important to consider the potential impacts of these likely differences when making decisions that may affect the future financial health of the Settlement Fund.

In addition, investment returns may differ from the assumption. The larger the pool of assets, the more difficult it becomes to recover from unfavorable investment results. As an example, it is more difficult for a plan sponsor to deal with the effects of a 10% investment loss on a plan with \$1 billion in assets and liabilities than if the same plan sponsor is responsible for a 10% investment loss on a plan with \$1 million in assets and liabilities. Since plans make long-term promises and rely on long-term funding, it is important to consider how mature the Fund is today, and how mature it may become in the future.

Actuarial Standard of Practice No. 51 (ASOP 51) addresses these issues by providing actuaries with guidance for assessing and disclosing the risk associated with measuring pension liabilities and the determination of pension plan contributions. Specifically, it directs the actuary to:

Identify risks that may be significant to the Plan.

Assess the risks identified as significant to the Plan. The assessment does not need to include numerical calculations.

Disclose plan maturity measures and historical information that are significant to understanding the Plan's risks.

ASOP 51 states that if in the actuary's professional judgment, a more detailed assessment would be significantly beneficial in helping the individuals responsible for the Plan to understand the risks identified by the actuary, then the actuary should recommend that such an assessment be performed.

This appendix uses the framework of ASOP 51 to communicate important information about: significant risks to the Plan, the Plan's maturity, and relevant historical plan data.

#### **Investment Risk**

**Definition:** The potential that investment returns will be different than expected.

**Identification:** To the extent that actual investment returns differ from the assumed investment return, the Plan's future assets, funding contributions, and funded status may differ significantly from those presented in this valuation.

### **Demographic Risks**

**Definition:** The potential that mortality or other demographic experience will be different than expected.

**Identification:** The pension liabilities reported herein have been calculated by assuming that participants will follow patterns of demographic experience (e.g., mortality, withdrawal, disability, retirement, form of payment election, etc.) as described in Appendix B. If actual demographic experience or future demographic assumptions are different from what is assumed to occur in this valuation, future pension liabilities, funding contributions, and funded status may differ significantly from those presented in this valuation.