

LIFE, AND ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES - ASSOCIATION EDITION

ANNUAL STATEMENT

FOR THE YEAR ENDED DECEMBER 31, 2023 OF THE CONDITION AND AFFAIRS OF THE

MML Bay State Life Insurance Company

ode 0435 0435 NAIC Company Code 70416 Employer's ID Number 43-0581430

NAIC			Company Code	704	16 Employer's ID	Number	43-0581430
Organized under the Laws of	(Current) (I Conne	Prior) cticut	, Sta	te of Do	omicile or Port of En	try	СТ
Country of Domicile			United States of A	merica	ı		
Licensed as business type:	Life	e, Accident and	d Health [X] Frat	ernal B	enefit Societies []		
Incorporated/Organized	04/01/1935			Comm	enced Business		07/01/1894
Statutory Home Office	200 Great Pond	d Drive				Windsor, CT	, US 06095
	(Street and Nu	mber)			(City or	Town, State, C	ountry and Zip Code)
Main Administrative Office			1295 State St				
	Springfield, MA, US 01111		(Street and Nu	mber)		413-788	3-8411
(City or	Town, State, Country and Zip C	ode)			(Aı		phone Number)
Mail Address	1295 State Street		,			Springfield, M.	A, US 01111
	(Street and Number or P.	O. Box)			(City or	Town, State, C	ountry and Zip Code)
Primary Location of Books and	d Records		1295 State S				
	Springfield, MA, US 01111		(Street and Nu	mber)		413-788	3-8411
(City or	Town, State, Country and Zip C	ode)			(Aı		phone Number)
Internet Website Address			www.massmutu	al.com			
Statutory Statement Contact	Trevor V	Vade Gordon				61 ⁻	7-695-4321
,	(Name)				(Area Code)	(Telephone Number)
	tgordon@MassMutual.com (E-mail Address)					413-226 (FAX Nu	
	,					•	,
			OFFICER	S			
President and Chief Executive Officer	Roger William	Crandall			Tracquiror		Julieta Giselle Sinisgalli
Secretary _				Aŗ	Treasurer pointed Actuary		Vy Quoc Ho
			OTHER				
	executive Vice President and notal Officer	Paul Antho			Vice President	Fric Willia	m Partlan #, Executive Vice President
	Executive Vice President		,			2.10 17 11110	mr araan n, Excount vico i rociuon
Roger William Cr	randall - Chairman	DIR	RECTORS OR T Paul Anthony La				Elizabeth Ward Chicares
	nes O'Connor						
State of County of	Massachusetts Hampden	ss					
	. idin paon						
all of the herein described as statement, together with relate condition and affairs of the sai in accordance with the NAIC rules or regulations require respectively. Furthermore, the	sets were the absolute property dexhibits, schedules and expla d reporting entity as of the repor Annual Statement Instructions a differences in reporting not rel e scope of this attestation by the	of the said re nations therein ting period sta nd Accounting ated to accou e described off	eporting entity, fre n contained, annex ted above, and of g Practices and Pr inting practices a ficers also include	e and of received and of received and process the received and process	clear from any liens eferred to, is a full all ome and deductions es manual except to cedures, according elated corresponding	or claims there nd true stateme therefrom for the the extent tha to the best of g electronic filin	d that on the reporting period stated above, eon, except as herein stated, and that this ent of all the assets and liabilities and of the period ended, and have been completed to the state law may differ; or, (2) that state is their information, knowledge and belief, ig with the NAIC, when required, that is an ey various regulators in lieu of or in addition
Roger William C President and Chief Ex			Akintokunbo Ak Secretary	/	this an original filing		Julieta Giselle Sinisgalli Treasurer
Subscribed and sworn to befo	re me this			b. If 1. 2.	this an original filing no, State the amendme Date filed Number of pages a	ent number	· · · · · · · · · · · · · · · · · · ·

ASSETS

			Current Year		Prior Year
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	4 Net Admitted Assets
1.	Bonds (Schedule D)		Nonadmitted / 133613	250, 166, 363	
	Stocks (Schedule D):	200, 100,000			212,012,000
2.	2.1 Preferred stocks				
	2.2 Common stocks				
3.	Mortgage loans on real estate (Schedule B):				
0.	3.1 First liens	1 335 508		1 335 508	1 657 058
	3.2 Other than first liens.				
4.	Real estate (Schedule A):				
٠.	4.1 Properties occupied by the company (less \$				
	encumbrances)				
	4.2 Properties held for the production of income (less				
	\$ encumbrances)				
	4.3 Properties held for sale (less \$				
	encumbrances)				
5.	Cash (\$1,010,130 , Schedule E - Part 1), cash equivalents				
0.	(\$				
	investments (\$2,963,408 , Schedule DA)	67 096 892		67 096 892	111 900 743
6.	Contract loans (including \$ premium notes)			96,298,549	
7.	Derivatives (Schedule DB)				
8.	Other invested assets (Schedule BA)				
9.	Receivables for securities				
10.	Securities lending reinvested collateral assets (Schedule DL)				
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)				
	Title plants less \$ charged off (for Title insurers				
10.	only)				
14.	Investment income due and accrued				
15.	Premiums and considerations:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
10.	15.1 Uncollected premiums and agents' balances in the course of collection				
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	(3 000 546)		(3 000 546)	(3 059 424)
	15.3 Accrued retrospective premiums (\$	(0,000,010)		(0,000,010)	(0,000,121)
	contracts subject to redetermination (\$				
16.	Reinsurance:				
10.	16.1 Amounts recoverable from reinsurers	9 235 047	742	9 234 305	7 748 657
	16.2 Funds held by or deposited with reinsured companies	, ,		, ,	, ,
	16.3 Other amounts receivable under reinsurance contracts				
17.	Amounts receivable relating to uninsured plans				
	- '				
	Net deferred tax asset				1,715,240
19.	Guaranty funds receivable or on deposit				109,722
20.	Electronic data processing equipment and software				
21.	Furniture and equipment, including health care delivery assets				
	(\$)				
22.	Net adjustment in assets and liabilities due to foreign exchange rates				
23.	Receivables from parent, subsidiaries and affiliates				
	Health care (\$				2,002,004
25.	Aggregate write-ins for other than invested assets				
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)				
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts				
28.	Total (Lines 26 and 27)	5,110,280,556	687,990	5,109,592,566	5,022,867,608
	DETAILS OF WRITE-INS		, ,		
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)				
2501.	Totals (Eines 1101 tilla 1100 plas 1130)(Eine 11 above)				
2502.					
2503.					
2598.	Summary of remaining write-ins for Line 25 from overflow page				
2599.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)				
_555.	. 5.5.5 (E11100 2001 11110 2000 PINO 2000)(E1110 20 00046)		<u> </u>	1	

LIABILITIES, SURPLUS AND OTHER FUNDS

		1 Current Year	2 Prior Year
1.	Aggregate reserve for life contracts \$	141 601 572	137 777 QN1
	Aggregate reserve for accident and health contracts (including \$ Modco Reserve)		
3. 4.	Liability for deposit-type contracts (Exhibit 7, Line 14, Col. 1) (including \$	11,090,594	12,617,802
4.	4.1 Life (Exhibit 8, Part 1, Line 4.4, Col. 1 less Col. 6)	9,596,059	14,334,995
	4.2 Accident and health (Exhibit 8, Part 1, Line 4.4, Col. 6)		
5.	Policyholders' dividends/refunds to members \$		
6.	Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated		
	amounts:		
	6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$		
	6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$ Modco)		
7.	6.3 Coupons and similar benefits (including \$		
8.	Premiums and annuity considerations for life and accident and health contracts received in advance less		
	\$ discount; including \$ accident and health premiums (Exhibit 1,		
9.	Part 1, Col. 1, sum of lines 4 and 14) Contract liabilities not included elsewhere:		
	9.1 Surrender values on canceled contracts		
	9.2 Provision for experience rating refunds, including the liability of \$ accident and health experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health		
	Service Act	19,685,486	10,979,627
	9.3 Other amounts payable on reinsurance, including \$ assumed and \$		
	ceded		· · ·
10.	Commissions to agents due or accrued-life and annuity contracts \$ 311 730 accident and health	,	,
	\$ and deposit-type contract funds \$		
11. 12.	Commissions and expense allowances payable on reinsurance assumed		
	Transfers to Separate Accounts due or accrued (net) (including \$(284,850) accrued for expense		
44	allowances recognized in reserves, net of reinsured allowances)	(6,938,952)	4,634,921
14. 15.1	Taxes, licenses and fees due or accrued, excluding federal income taxes (Exhibit 3, Line 9, Col. 6)		
	Net deferred tax liability		
16. 17.	Unearned investment income Amounts withheld or retained by reporting entity as agent or trustee		
18.	Amounts held for agents' account, including \$ agents' credit balances		
19.	Remittances and items not allocated	250,532	1,497,241
20. 21.	Net adjustment in assets and liabilities due to foreign exchange rates		
22.	Borrowed money \$ and interest thereon \$		
23.	Dividends to stockholders declared and unpaid		
24.	Miscellaneous liabilities: 24.01 Asset valuation reserve (AVR, Line 16, Col. 7)	6.462.012	6.881.096
	24.02 Reinsurance in unauthorized and certified (\$		
	24.03 Funds held under reinsurance treaties with unauthorized and certified (\$		
	24.05 Drafts outstanding		
	24.06 Liability for amounts held under uninsured plans		
	24.07 Funds held under coinsurance		
	24.09 Payable for securities		
	24.10 Payable for securities lending		
25.	24.11 Capital notes \$ and interest thereon \$ Aggregate write-ins for liabilities	342,287	300,551
26.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)	204,407,791	200,840,820
27. 28.	From Separate Accounts Statement	4,672,460,875	4,569,883,813 4,770,724,634
29.	Common capital stock	4,876,868,667	2,500,200
30.	Preferred capital stock		
31. 32.	Aggregate write-ins for other than special surplus funds		
33.	Gross paid in and contributed surplus (Page 3, Line 33, Col. 2 plus Page 4, Line 51.1, Col. 1)	143,736,914	143,736,914
34.	Aggregate write-ins for special surplus funds		
35. 36.	Unassigned funds (surplus)	86,486,785	905,860
	36.1 shares common (value included in Line 29 \$)		
27	36.2 shares preferred (value included in Line 30 \$		
37. 38.	Totals of Lines 29, 30 and 37 (Page 4, Line 55)	230,223,700 232,723,900	249,642,774 252,142,974
39.	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	5,109,592,566	5,022,867,608
0.504	DETAILS OF WRITE-INS	040,400	0.40, 000
2501. 2502.	Miscellaneous liabilities	· ·	
2503.			
2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page		
3101.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)	342,287	300,551
3102.			
3103. 3198.	Summary of remaining write ine for Line 31 from overflow page		
3199.	Summary of remaining write-ins for Line 31 from overflow page		
3401.			
3402. 3403.			
3498.	Summary of remaining write-ins for Line 34 from overflow page		
3499.	Totals (Lines 3401 thru 3403 plus 3498)(Line 34 above)		

SUMMARY OF OPERATIONS

		1	2
1.	Premiums and annuity considerations for life and accident and health contracts (Exhibit 1, Part 1, Line 20.4, Col. 1 less	Current Year	Prior Year
	Col. 8)		
2.	Considerations for supplementary contracts with life contingencies		
3. 4.	Net investment income (Exhibit of Net Investment Income, Line 17)		
5.	Separate Accounts net gain from operations excluding unrealized gains or losses		
6.	Commissions and expense allowances on reinsurance ceded (Exhibit 1, Part 2, Line 26.1, Col. 1)	10,142,269	10,260,223
7.	Reserve adjustments on reinsurance ceded	(81,844,154)	(112,807,912)
8.	Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate		
	Accounts	79,333,419	73,450,776
	8.2 Charges and fees for deposit-type contracts	· · · ·	
	8.3 Aggregate write-ins for miscellaneous income		(1,401,707)
9.	Total (Lines 1 to 8.3)	17,848,957	(13,507,335)
10. 11.	Death benefits		, ,
12.	Annuity benefits (Exhibit 8, Part 2, Line 6.4, Cols. 4 + 5 minus Analysis of Operations Summary, Line 18, Col. 1)		
13.	Disability benefits and benefits under accident and health contracts	401,741	385,892
14.	Coupons, guaranteed annual pure endowments and similar benefits		
15.	Surrender benefits and withdrawals for life contracts		
16. 17.	Group conversions		
18.	Payments on supplementary contracts with life contingencies	102,424	80,799
19.	Increase in aggregate reserves for life and accident and health contracts	3,913,671	(5,507,975)
20.	Totals (Lines 10 to 19)	64,425,409	59,860,393
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only) (Exhibit 1, Part 2, Line 31, Col. 1)	1 841 262	1 873 089
22.	2, Line 31, Col. 1)	1,041,200	
23.	General insurance expenses and fraternal expenses (Exhibit 2, Line 10, Cols. 1, 2, 3, 4 and 6)	7,821,089	6,520,179
24.	Insurance taxes, licenses and fees, excluding federal income taxes (Exhibit 3, Line 7, Cols. 1 + 2 + 3 + 5)	750,553	750,702
25.	Increase in loading on deferred and uncollected premiums	/00 000 550	(07,000,070)
26. 27.	Net transfers to or (from) Separate Accounts net of reinsurance	(1,349,713)	
28.	Totals (Lines 20 to 27)	10,795,049	(29,394,989)
29.	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus		, , , , , ,
	Line 28)	7,053,908	15,887,654
30.	Dividends to policyholders and refunds to members		
31.	Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	7 053 908	15 887 654
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)		1,002,915
33.	Not gain from operations after dividends to policyholders, refunds to members and federal income taxes and hefere		
	realized capital gains or (losses) (Line 31 minus Line 32)	7,866,568	14,884,739
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$(98,693) (excluding taxes of \$(7,833) transferred to the IMR)	(701,549)	(14,780)
35.	Net income (Line 33 plus Line 34)		14.869.959
	CAPITAL AND SURPLUS ACCOUNT	, , ,	, .,
36.	Capital and surplus, December 31, prior year (Page 3, Line 38, Col. 2)	252,142,974	265,429,591
37.	Net income (Line 35)		
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$		
39. 40.	Change in net deferred income tax	(780 354)	(1 063 691)
41.	Change in nonadmitted assets	494,095	1,037,047
42.	Change in liability for reinsurance in unauthorized and certified companies		
43.	Change in reserve on account of change in valuation basis, (increase) or decrease		
44. 45.	Change in asset valuation reserve	·	
46.	Surplus (contributed to) withdrawn from Separate Accounts during period		
47.	Other changes in surplus in Separate Accounts Statement		
48.	Change in surplus notes		
49.	Cumulative effect of changes in accounting principles		
50.	Capital changes: 50.1 Paid in		
	50.2 Transferred from surplus (Stock Dividend)		
	50.3 Transferred to surplus		
51.	Surplus adjustment:		
	51.1 Paid in		
	51.2 Transferred to capital (Stock Dividend)		
	51.4 Change in surplus as a result of reinsurance		
52.	Dividends to stockholders	(25,000,000)	(26,000,000)
53.	Aggregate write-ins for gains and losses in surplus		
54.	Net change in capital and surplus for the year (Lines 37 through 53)	(19,419,074)	
55.	Capital and surplus, December 31, current year (Lines 36 + 54) (Page 3, Line 38) DETAILS OF WRITE-INS	232,723,900	252,142,974
08 301	Management and administrative fees	(1.510.303)	(1 646 078)
	Revenue sharing		
08.303.	Miscellaneous	105,997	(630,238)
	Summary of remaining write-ins for Line 8.3 from overflow page		
08.399.	Totals (Lines 08.301 thru 08.303 plus 08.398)(Line 8.3 above)	(590,304)	(1,401,707)
	Reinsurance ceded adjustment		
_	miscerialieous cilarges to operations		,
2798.	Summary of remaining write-ins for Line 27 from overflow page		
2799.	Totals (Lines 2701 thru 2703 plus 2798)(Line 27 above)	(1,349,713)	(1,060,474)
5301.	Reinsurance ceded adjustment		
	Other changes to surplus		
	Summary of remaining write-ins for Line 53 from overflow page		
	Totals (Lines 5301 thru 5303 plus 5398)(Line 53 above)	(1,405,130)	
		-	

CASH FLOW

		1	2
		Current Year	Prior Year
	Cash from Operations		
1.	Premiums collected net of reinsurance	1,295,406	529 , 189
2.	Net investment income	18,643,994	14,769,872
3.	Miscellaneous income	29,631,430	(19,278,017
4.	Total (Lines 1 through 3)	49,570,830	(3,978,956
5.	Benefit and loss related payments	69,266,533	55,490,862
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts		(85,460,421
7.	Commissions, expenses paid and aggregate write-ins for deductions		
8.	Dividends paid to policyholders		
9.	Federal and foreign income taxes paid (recovered) net of \$		(5,189,433
10.	Total (Lines 5 through 9)		(18,791,25
11.	Net cash from operations (Line 4 minus Line 10)		14,812,302
	Tot dadi nom sporationo (Emo 1 minuo Emo 10)	20,770,102	11,012,002
	Cash from Investments		
12.	Proceeds from investments sold, matured or repaid:		
12.	12.1 Bonds	0.710.650	E 601 900
	12.2 Stocks		
	12.3 Mortgage loans		
	12.4 Real estate		
	12.5 Other invested assets	, i	,
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments		(1,4/
	12.7 Miscellaneous proceeds		_
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	9,914,938	6, 116, 18
13.	Cost of investments acquired (long-term only):		
	13.1 Bonds	47,992,655	(108,06
	13.2 Stocks		
	13.3 Mortgage loans	1,556	4,59
	13.4 Real estate		
	13.5 Other invested assets	52,369	191,076
	13.6 Miscellaneous applications		
	13.7 Total investments acquired (Lines 13.1 to 13.6)	48,046,580	87,60
14.	Net increase/(decrease) in contract loans and premium notes	2,266,873	3,483,416
15.	Net cash from investments (Line 12.8 minus Line 13.7 minus Line 14)	(40,398,515)	2,545,16
16	Cash provided (applied):		
16.	Cash provided (applied): 16.1 Surplus notes, capital notes		
	16.2 Capital and paid in surplus, less treasury stock		
	16.3 Borrowed funds		
	16.4 Net deposits on deposit-type contracts and other insurance liabilities		
	16.5 Dividends to stockholders		26,000,00
	16.6 Other cash provided (applied)	(994,956)	3,367,98
17.	Net cash from financing and miscellaneous sources (Lines 16.1 to 16.4 minus Line 16.5 plus Line 16.6)	(28,180,528)	(26,556,22
	DECONCILIATION OF CARL CARL EQUIVALENTS AND SHOPT TERM INVESTMENTS		
18.	RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	(44,803,851)	(9,198,76
		(44,000,001)	(3, 130, 70,
19.	Cash, cash equivalents and short-term investments:	111 000 740	101 000 50
	19.1 Beginning of year		121,099,50
	19.2 End of year (Line 18 plus Line 19.1)	67,096,892	111,900,743
te: S	upplemental disclosures of cash flow information for non-cash transactions:		
0.000	1. Bond conversions and refinancing		1,092,664
.000	2. Transfer of bonds to partnerships and LLCs		191,076

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - SUMMARY

		ANAL I SIS OF	OFLIVATIO	45 DI LINES	OI DOSHIL	33 - SUIVIIVIA	1			
		1	2	3	4	5	6	7	8	9
									Other Lines of	YRT Mortality
		Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident and Health	Fraternal	Business	Risk Only
1.	Premiums and annuity considerations for life and accident and health contracts	(8,537,471)	(8,542,271)		4,800				· · · · · · · · · · · · · · · · · · ·	
2.	Considerations for supplementary contracts with life contingencies		XXX	XXX	28,563		XXX	XXX		XXX
3.	Net investment income		17,448,605	812,648	844,645					
4.	Amortization of Interest Maintenance Reserve (IMR)		185,510	12,370	12,857					
5.	Separate Accounts net gain from operations excluding unrealized gains or losses							XXX		
6.	Commissions and expense allowances on reinsurance ceded		3,542,933	6,599,336				XXX		
7.	Reserve adjustments on reinsurance ceded	(81,844,154)	(58,238,089)	(23,606,065)				XXX		
8.	Miscellaneous Income:									
	Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	79,333,419	69,351,566	9,565,841	416,012			xxx		
	8.2 Charges and fees for deposit-type contracts						XXX	XXX		
	8.3 Aggregate write-ins for miscellaneous income	. (590,304)	158,982	(805, 117)	55,830					
9.	Totals (Lines 1 to 8.3)	. 17,848,957	23,907,236	(7,420,987)	1,362,708					
10.	Death benefits	54.390.312	54.390.312				XXX	XXX		
11.	Matured endowments (excluding guaranteed annual pure endowments)	, , , , ,	. , , .				XXX	XXX		
12.	Annuity benefits	502.292	XXX	XXX	502.292		XXX	XXX		xxx
13.	Disability benefits and benefits under accident and health contracts	401.741	401.741					XXX		
14.	Coupons, guaranteed annual pure endowments and similar benefits							XXX		
15.	Surrender benefits and withdrawals for life contracts				2.810.073		XXX	XXX		
16.	Group conversions	-, ,			2,010,070			XXX		
17.	Interest and adjustments on contract or deposit-type contract funds		1.099.973	251.761	662 .759			XXX		
18.	Payments on supplementary contracts with life contingencies				102.424		XXX	XXX		
19.	Increase in aggregate reserves for life and accident and health contracts		3,400,562	130,000	383, 109			XXX		
20.	Totals (Lines 10 to 19)	64.425.409	59.582.991		4.460.657			XXX		
21.	Commissions on premiums, annuity considerations and deposit-type contract funds				7,700,007					
21.	(direct business only)	1.841.263	618.458	1.193.896	28.909					XXX
22.	Commissions and expense allowances on reinsurance assumed	, , .			20,000			XXX		7000
23.	General insurance expenses and fraternal expenses		7.317.847	353.382	149.861					
24.	Insurance taxes, licenses and fees, excluding federal income taxes		743.204	2.333	5.017					
25.	Increase in loading on deferred and uncollected premiums		170,207	2,000				XXX		
26.	Net transfers to or (from) Separate Accounts net of reinsurance		(53,920,723)	(5.865.969)	(2.906.861)			XXX		
27.	Aggregate write-ins for deductions		(1,355,199)	5,797	(311)					
28.	Totals (Lines 20 to 27)		12.986.578	(3.928.800)	(- /					
29.	Net gain from operations before dividends to policyholders, refunds to members and	,, .	12,300,370	(0,320,000)	1,707,271					
29.	federal income taxes (Line 9 minus Line 28)		10.920.658	(3.492.187)	(374.563)					
30.	Dividends to policyholders and refunds to members			(0, 102, 101)	(071,000)			XXX		
	Net gain from operations after dividends to policyholders, refunds to members and							7000		
01.	before federal income taxes (Line 29 minus Line 30)	7.053.908	10.920.658	(3.492.187)	(374.563)					
32.	Federal income taxes incurred (excluding tax on capital gains)		(1,258,261)	402,436	43,164					
33.	Net gain from operations after dividends to policyholders, refunds to members and		· , , , ,	,						
	federal income taxes and before realized capital gains or (losses) (Line 31 minus									
	Line 32)	7,866,568	12, 178, 919	(3,894,623)	(417,728)					
34.	Policies/certificates in force end of year	28,058	24,571	2,992	495			XXX		
	DETAILS OF WRITE-INS									
08.301	Management and administrative fees	(1,510,303)	(705, 177)	(805, 126)						
	Revenue sharing				55,821					
08.303	Miscellaneous	105,997	105,979	9	9					
08.398	Summary of remaining write-ins for Line 8.3 from overflow page									
08.399	Totals (Lines 08.301 thru 08.303 plus 08.398) (Line 8.3 above)	(590,304)	158,982	(805, 117)	55,830					
2701.	Reinsurance ceded adjustment	(1,404,285)	(1,404,285)							
	Miscellaneous charges to operations	54,572	49,086	5,797	(311)					
2703.	· '	. , ,	-,							
2798.	Summary of remaining write-ins for Line 27 from overflow page									
2799.	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(1,349,713)	(1,355,199)	5,797	(311)					-
	,	. , , ,	. , , ,	.,	, ,,,,,					

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - INDIVIDUAL LIFE INSURANCE (b)

	AINA	AL I SIS UF	OPERAI	DING DI L	INES OF D	OSINESS	יטטועוטאוו -	AL LIFE II	150KANC				
		1	2	3	4	5	6	7	8	9	10	11	12
								Universal Life					
								With Secondary		Variable	Credit Life	Other Individual	YRT Mortality
		Total	Industrial Life	Whole Life	Term Life	Indexed Life	Universal Life	Guarantees	Variable Life	Universal Life	(c)	Life	Risk Only
1.	Premiums for life contracts (a)	(8,542,271)							219,934	(8,762,205)			
2.	Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3.	Net investment income	17,448,605							824,311	16,624,294			
4.	Amortization of Interest Maintenance Reserve (IMR)	185,510							10,930	174,580			
5.	Separate Accounts net gain from operations excluding unrealized gains or												
	losses												
6.	Commissions and expense allowances on reinsurance ceded	3,542,933								3,542,933			
7.	Reserve adjustments on reinsurance ceded	(58,238,089)								(58,238,089)			
8.	Miscellaneous Income:												
	8.1 Income from fees associated with investment management,	69,351,566								68,946,006			
	administration and contract guarantees from Separate Accounts								400,000	00,340,000			
	8.2 Charges and fees for deposit-type contracts	158.982								158.974			
_	8.3 Aggregate write-ins for miscellaneous income								1 400 740				
9.	Totals (Lines 1 to 8.3)	23,907,236					1	ļ	1,460,742	22,446,494			
10.	Death benefits	54,390,312							111, 184	54,279,128			
11.	Matured endowments (excluding guaranteed annual pure endowments)												
12.	Annuity benefits	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
13.	Disability benefits and benefits under accident and health contracts	401,741							6,328	395,413			
14.	Coupons, guaranteed annual pure endowments and similar benefits												
15.	Surrender benefits and withdrawals for life contracts	290,403							290,373	30			
16.	Group conversions												
17.	Interest and adjustments on contract or deposit-type contract funds	1,099,973							162	1,099,811			
18.	Payments on supplementary contracts with life contingencies												
19.	Increase in aggregate reserves for life and accident and health contracts	3,400,562							313,620	3,086,942			
20.	Totals (Lines 10 to 19)	59,582,991							721,666	58,861,325			
21.	Commissions on premiums, annuity considerations and deposit-type	618.458							560	617.898			2007
	contract funds (direct business only)	018,438							000	017,898			XXX
22.	Commissions and expense allowances on reinsurance assumed									0.704.004			
23.	General insurance expenses	7,317,847							612,963	6,704,884			
24.	Insurance taxes, licenses and fees, excluding federal income taxes	743,204							175,660	567,543			
25.	Increase in loading on deferred and uncollected premiums												
26.	Net transfers to or (from) Separate Accounts net of reinsurance	(53,920,723)							(127,926)	(53,792,797)			
27.	Aggregate write-ins for deductions	(1,355,199)							6	(1,355,204)			
28.	Totals (Lines 20 to 27)	12,986,578							1,382,929	11,603,649			
29.													
	members and federal income taxes (Line 9 minus Line 28)	10,920,658							77,813	10,842,845			
30.	Dividends to policyholders and refunds to members												
31.													
	members and before federal income taxes (Line 29 minus Line 30)	10,920,658							77,813	10,842,845			
32.	Federal income taxes incurred (excluding tax on capital gains)	(1,258,261)								(1,258,261)			
33.	Net gain from operations after dividends to policyholders, refunds to												
	members and federal income taxes and before realized capital gains or	40 470 040							77 040	10 101 100			
-	(losses) (Line 31 minus Line 32)	12,178,919 24.571					-		77,813 227	12, 101, 106 24, 344			
34.	Policies/certificates in force end of year	24,5/1							221	24,344			
	DETAILS OF WRITE-INS	750 100								750 400			
	Revenue sharing	758, 180								758, 180			
	Miscellaneous	105,979							8	105,971			
	Management and administrative fees	(705, 177)								(705, 177)			
08.398													
08.399		158,982							8	158,974			
2701.	Reinsurance ceded adjustment	(1,404,285)								(1,404,285)			
2702.	Miscellaneous charges to operations	49,086							6	49,080			
2703.													
2798.	Summary of remaining write-ins for Line 27 from overflow page												
2799.	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(1,355,199)							6	(1,355,204)			
	. /)	· ·											

⁽a) Include premium amounts for preneed plans included in Line 1

⁽b) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

⁽c) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - GROUP LIFE INSURANCE (c)

		· · · · · · ·							1	
		1	2	3	4	5	6 Variable Universal	7 Credit Life	8 Other Group Life	9 YRT Mortality
		Total	Whole Life	Term Life	Universal Life	Variable Life	Life	(d)	(a)	Risk Only
1.	Premiums for life contracts (b)									
2.	Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3.	Net investment income	812,648					812,648			
4.	Amortization of Interest Maintenance Reserve (IMR)	12,370					12,370			
5.	Separate Accounts net gain from operations excluding unrealized gains or losses									
6.	Commissions and expense allowances on reinsurance ceded	6,599,336					6,599,336			
7.	Reserve adjustments on reinsurance ceded	(23.606.065)					(23,606,065)			
8.	Miscellaneous Income:	, , , , , , , , , , , , , , , , , , , ,					(, , , , ,			
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	9.565.841					9,565,841			
	8.2 Charges and fees for deposit-type contracts						, ,			
	8.3 Aggregate write-ins for miscellaneous income	(805, 117)					(805,117)			
a	Totals (Lines 1 to 8.3)	(7.420.987)					(7.420.987)			
10.		(: , :== , ; ; ; ,	+				(:,:=:,;:::,			
	Matured endowments (excluding guaranteed annual pure endowments)									
12.	Annuity benefits	XXX	XXX							XXX
13.	Disability benefits and benefits under accident and health contracts									
14.	Coupons, guaranteed annual pure endowments and similar benefits									
15.	Surrender benefits and withdrawals for life contracts									
16.	Group conversions									
17.	Interest and adjustments on contract or deposit-type contract funds	251,761					251,761			
18.	Payments on supplementary contracts with life contingencies						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
19.	Increase in aggregate reserves for life and accident and health contracts	130 000					130.000			
20.		381.761			_		381.761			
21.	Commissions on premiums, annuity considerations and deposit-type contract funds (direct									
21.	business only)	1 193 896					1.193.896			XXX
22.	Commissions and expense allowances on reinsurance assumed									
23.	General insurance expenses						353,382	• • • • • • • • • • • • • • • • • • • •		•••••
24.	Insurance taxes, licenses and fees, excluding federal income taxes						2.333			
	Increase in loading on deferred and uncollected premiums						2,333			
25.							/F 00F 000\			
26.	Net transfers to or (from) Separate Accounts net of reinsurance						(5,865,969)			
27.	Aggregate write-ins for deductions	5,797					5,797			
28.	Totals (Lines 20 to 27)	(3,928,800)					(3,928,800)			
	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(3,492,187)					(3,492,187)			
30.	Dividends to policyholders and refunds to members									
31.		(3,492,187)					(3,492,187)			
	Federal income taxes incurred (excluding tax on capital gains)	402,436					402,436			
33.	Net gain from operations after dividends to policyholders, refunds to members and federal	/0.004					(0.00/			
	income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	(3,894,623)					(3,894,623)			
34.	Policies/certificates in force end of year	2,992					2,992			
	DETAILS OF WRITE-INS									
08.301.	Management and administrative fees	(805, 126)					(805, 126)			
	Miscellaneous						9			
08.303.										
08.398	Summary of remaining write-ins for Line 8.3 from overflow page									
	Totals (Lines 08.301 thru 08.303 plus 08.398) (Line 8.3 above)	(805.117)					(805.117)			
	Miscellaneous charges to operations				+		5.797			
2701.							3,797			
_					· ·····					
2703.					· ····					
	Summary of remaining write-ins for Line 27 from overflow page									
	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	5,797					5,797			
/ \ I I I	on the following amounts for EECLI/SCLI: Line 1									· · · · · · · · · · · · · · · · · · ·

⁽a) Includes the following amounts for FEGLI/SGLI: Line 1, Line 10, Line 16, Line 23, Line 24

⁽b) Include premium amounts for preneed plans included in Line 1

⁽c) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

⁽d) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - INDIVIDUAL ANNUITIES (a)

	ANALISIS OF OF LIKETIONS BY L	1	5 2 5		erred		6	7
			2	3	4	5	Life Contingent	
					Variable Annuities	Variable Annuities	Payout (Immediate	
		Total	Fixed Annuities	Indexed Annuities	with Guarantees	Without Guarantees	and Annuitizations)	Other Annuities
1.	Premiums for individual annuity contracts	4,800			4,800			
2.	Considerations for supplementary contracts with life contingencies	28,563	XXX	XXX	XXX	XXX	28,563	XXX
3.	Net investment income				279,766		, , , , ,	564.879
4	Amortization of Interest Maintenance Reserve (IMR)	12.857			4.259			8 .599
5.	Separate Accounts net gain from operations excluding unrealized gains or losses				,200			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6.	Commissions and expense allowances on reinsurance ceded							
7.	Reserve adjustments on reinsurance ceded							
	Miscellaneous Income:							
0.	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	416.012			416.012			
	8.2 Charges and fees for deposit-type contracts							
	8.3 Aggregate write-ins for miscellaneous income	55.830			55.824		6	
9	Totals (Lines 1 to 8.3)	1.362.708			760.661		28.569	573.478
10.	Death benefits	1,002,700			700,001		20,303	370,470
11.	Matured endowments (excluding guaranteed annual pure endowments)		•••••		502.292			
12.	Annuity benefits	502,292			502,292			
13.	Disability benefits and benefits under accident and health contracts							
14.	Coupons, guaranteed annual pure endowments and similar benefits				0.040.070			
15.	Surrender benefits and withdrawals for life contracts	2,810,073			2,810,073			
16.	Group conversions							
17.	Interest and adjustments on contract or deposit-type contract funds				4,397		96,880	561,483
18.	Payments on supplementary contracts with life contingencies	102,424					102,424	
19.	Increase in aggregate reserves for life and accident and health contracts	383, 109			383, 109			
20.		4,460,657			3,699,871		199,303	561,483
21.	Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	28,909			28,909			
22.	Commissions and expense allowances on reinsurance assumed							
23.		149,861			65,552			84,309
24.	Insurance taxes, licenses and fees, excluding federal income taxes	5,017			2,603			2,414
25.	Increase in loading on deferred and uncollected premiums							
26.	Net transfers to or (from) Separate Accounts net of reinsurance	(2,906,861)			(2,906,861)			
27.	Aggregate write-ins for deductions	(311)			(311)			
28.	Totals (Lines 20 to 27)	1,737,271			889,762		199,303	648,206
29.	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(374,563)			(129, 101)		(170,734)	(74.728)
30.	Dividends to policyholders and refunds to members				(= = , ,			
	Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30).	(374.563)			(129.101)		(170.734)	(74.728)
32.	Federal income taxes incurred (excluding tax on capital gains)	43.164			14.877		28.287	(7.1,1.20)
33.	Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital	10, 101			11,011		20,201	
55.	ret gain roin operations and dividends to policyholders, returnes to members and lederal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	(417,728)			(143,978)		(199,021)	(74,728)
34	Policies/certificates in force end of year	495			408		(120,121)	87
·	DETAILS OF WRITE-INS	400			400			01
00 201	Revenue sharing	55.821			55.821			
		9	•••••		3		6	
08.302								
	Summary of remaining write-ins for Line 8.3 from overflow page		•••••					
	Totals (Lines 08.301 thru 08.303 plus 08.398) (Line 8.3 above)	55,830	•••••		55,824		6	
		(311)			(311)		0	
	· · · · · · · · · · · · · · · · · · ·	(- ,			(- ,			
2702.								
2703.								
	Summary of remaining write-ins for Line 27 from overflow page						[·····	
	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(311)			(311)			

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which which columns are affected.

Analysis of Operations by Lines of Business - Group Annuities ${f N} \ {f O} \ {f N} \ {f E}$

Analysis of Operations by Lines of Business - Accident and Health ${f N}$ ${f O}$ ${f N}$ ${f E}$

7.

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - INDIVIDUAL LIFE INSURANCE (a)

AIVALI	SIS OF IN	CIVEAGE II	1 IVEOUIV	LO DOM	10 IIIL IL	AIX - INDIV	IDOVE EII	L IIIOUIA	ITOL '			
	1	2	3	4	5	6	7	8	9	10	11	12
							Universal Life					YRT
	T. (.)	1. 1 1.2.11.26.	14/1-1-1-15	T 126	1. 1	11.2 11.26	With Secondary	17. 2.1.1. 126.	Variable	Credit Life (b)	Other Individual	Mortality
	Total	Industrial Life	Whole Life	Term Life	Indexed Life	Universal Life	Guarantees	Variable Life	Universal Life	(N/A Fratermal)	Life	Risk Only
Involving Life or Disability Contingencies (Reserves)												
(Net of Reinsurance Ceded)												
Reserve December 31 of prior year								3,473,487	129 , 796 , 156			
Tabular net premiums or considerations								219,934	1, 132, 786			
Present value of disability claims incurred												
4. Tabular interest	4,451,083							107,828	4,343,255			
Tabular less actual reserve released												
6. Increase in reserve on account of change in valuation basis												
6.1 Change in excess of VM-20 deterministic/stochastic reserve over												
net premium reserve		XXX								XXX		
net premium reserve	2,762,566							54,822	2,707,744			
8. Totals (Lines 1 to 7)	141,836,012							3,856,071	137,979,941			
9. Tabular cost								331,868	27, 115, 699			
10. Reserves released by death	43,688,314								43,688,314			
11. Reserves released by other terminations (net)	33,842,943							270,942	33,572,001			
12. Annuity, supplementary contract and disability payments involving								,	, ,			
life contingencies												
13. Net transfers to or (from) Separate Accounts								(533,846)	(99, 279, 171)			
14. Total Deductions (Lines 9 to 13)								68,964	5,096,843			
15. Reserve December 31 of current year	136,670,205							3,787,107	132,883,098			
Cash Surrender Value and Policy Loans	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							-,,	. ,,			
16. CSV Ending balance December 31, current year	142,500,194							3, 196, 624	139,303,570			
17. Amount Available for Policy Loans Based upon Line 16 CSV	114,000,155							2,557,299	111,442,856			
17. Amount Available for Folicy Loans based upon Line 10 CSV	117,000,100	1		1		1	1	2,001,200	111,442,000		1	

⁽a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

⁽b) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

7.2

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - GROUP LIFE INSURANCE (a) (N/A Fraternal)

			(IVA I Iatelli	ui <i>j</i>					
	1	2	3	4	5	6	7	8	9
						Variable		Other	YRT
						Universal	Credit	Group	Mortality
	Total	Whole Life	Term Life	Universal Life	Variable Life	Life	Life (b)	Life	Risk Only
Involving Life or Disability Contingencies (Reserves)									
(Net of Reinsurance Ceded)									
Reserve December 31 of prior year	2,100,000					2,100,000			
2. Tabular net premiums or considerations									
Present value of disability claims incurred									
4. Tabular interest	63,000					63,000			
Tabular less actual reserve released									
6. Increase in reserve on account of change in valuation basis									
7. Other increases (net)	(1,107,351)					(1, 107, 351)			
8. Totals (Lines 1 to 7)	1,055,649					1,055,649			
9. Tabular cost	5,537,688					5,537,688			
10. Reserves released by death	15,564,278					15,564,278			
11. Reserves released by other terminations (net)									
12. Annuity, supplementary contract and disability payments involving life									
contingencies									
13. Net transfers to or (from) Separate Accounts	(22,276,317)					(22,276,317)			
14. Total Deductions (Lines 9 to 13)	(1, 174, 351)					(1, 174, 351)			
15. Reserve December 31 of current year	2,230,000					2,230,000			
Cash Surrender Value and Policy Loans									
16. CSV Ending balance December 31, current year									
17. Amount Available for Policy Loans Based upon Line 16 CSV									

⁽a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.
(b) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - INDIVIDUAL ANNUITIES (a)

1		Defe	erred		6	7
•	2	3	4	5	Life Contingent	•
	-		Variable Annuities	Variable Annuities		
Total	Fixed Annuities	Indexed Annuities	with Guarantees	without Guarantees	and Annuitizations)	Other Annuities
2,408,258			2,408,258			
4,800			4,800			
XXX	XXX	XXX	XXX	XXX	XXX	XXX
			103,997			
(651,690)			(651,690)			
1,180,396			1,180,396			
3,045,761			3,045,761			
XXX	XXX	XXX	XXX	XXX	XXX	XXX
2,810,073			2,810,073			
352,663			352,663			
(2,908,342)			(2,908,342))		
254,394			254,394			
2,791,367			2,791,367			
1,692,840			1,692,840			
		2,408,258 4,800 XXX. XXX. XXX. 103,997 	2 3 Total Fixed Annuities Indexed Annuities 2,408,258 4,800 XXX XXX XXX 103,997 (651,690) 11,180,396 3,045,761 XXX XXX XXX 2,810,073 XXX XXX XXX XXX XXX 1,692,840 11,692,840	2,408,258 2,408,258 4,800 4,800 XXX XXX 103,997 103,997 (651,690) (651,690) 1,180,396 1,180,396 3,045,761 3,045,761 XXX XXX 2,810,073 2,810,073 352,663 352,663 (2,908,342) (2,908,342) 254,394 254,394 2,791,367 2,791,367 1,692,840 1,692,840	Total Fixed Annuities Indexed Annuities Variable Annuities Var	Total Fixed Annuities Indexed Annuities Variable Annuities Var

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - GROUP ANNUITIES (a)

(N/A Fraternal)

Total Tota			(IWA I Tatellie	41 <i>)</i>					
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded) (Net of Reinsurance C			1		Defe	erred		6	7
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded) Reserve December 31 of prior year. Total Fixed Annuities with Guarantees and Annuitizations) Other Annuities with Guarantees and Annuitizations (Net of Reinsurance Ceded) Reserve December 31 of prior year. Tabular ret premiums or considerations. XXX XXX XXX XXX XXX XXX XXX XXX XXX X				2	3	4	5		
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded) (Net of Reinsurance Ceded) (Net of Reinsurance Ceded) 1. Reserve December 31 of prior year 2. Tabular net premiums or considerations 3. Present value of disability claims incurred 2. Tabular interest 3. Present value of disability claims incurred 4. Tabular interest 5. Tabular inses actual reserve released 6. Increase in reserve on account of change in valuation basis 7. Other increases (net) 8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by dath 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year Cash Carlon Valiable for Policy Loans Based upon Line 16 CSV			-						
(Net of Reinsurance Ceded) Reserve December 31 of prior year Tabular net premiums or considerations XXX XXX XXX XXX XXX XXX XXX XXX XXX XX			I otal	Fixed Annuities	Indexed Annuities	with Guarantees	without Guarantees	and Annuitizations)	Otner Annuities
1. Reserve December 31 of prior year 2. Tabular net premiums or considerations 3. Present value of disability claims incurred 3. Tabular interest 4. Tabular interest 5. Tabular less actual reserve released 6. Increase in reserve on account of change in valuation basis 7. Other increases (net) 8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year 16. CSV Ending balance December 31, current year 16. Amount Available for Policy Loans Based upon Line 16 CSV									
2. Tabular net premiums or considerations 3. Present value of disability claims incurred 4. Tabular interest 5. Tabular less actual reserve released 6. Increase in reserve on account of change in valuation basis 7. Other increases (net) 8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by death 12. Anouty, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 ocurrent year 16. CSV Ending balance December 31, current year 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV									
3. Present value of disability claims incurred XXX XXX XXX XXX XXX XXX XXX XXX XXX X	1.	' '							
4 Tabular interest 5 Tabular less actual reserve released 6 Increase in reserve on account of change in valuation basis 7 Other increases (net) 8 Totals (Lines 1 to 7) 9 Tabular cost 10 Reserves released by death 11 Reserves released by other terminations (net) 12 Annulty, supplementary contract and disability payments involving life contingencies 13 Net transfers to or (from) Separate Accounts 14 Total Deductions (Lines 9 to 13) 15 Reserve December 31 of current year 16 CSV Ending balance December 31, current year 16 CSV Ending balance December 31, current year 17 Amount Available for Policy Loans Based upon Line 16 CSV	2.								
5 Tabular less actual reserve released 6 Increase in reserve on account of change in valuation basis 7 Other increases (net) 8 Totals (Lines 1 to 7) 9 Tabular cost 10 Reserves released by death 11 Reserves released by other terminations (net) 12 Annuity, supplementary contract and disability payments involving life contingencies 13 Net transfers to or (from) Separate Accounts 14 Total Deductions (Lines 9 to 13) 15 Reserve December 31 of current year Cash Surrender Value and Policy Loans 16 CSV Ending balance December 31, current year	3.		XXX	XXX	XXX	XXX	XXX	XXX	XXX
8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	4.	Tabular interest							
8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	5.	Tabular less actual reserve released							
8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	6.	Increase in reserve on account of change in valuation basis	······· ······						
8. Totals (Lines 1 to 7) 9. Tabular cost 10. Reserves released by death 11. Reserves released by other terminations (net) 12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	7.	Other increases (net)							
10. Reserves released by death	8.	Totals (Lines 1 to 7)							
10. Reserves released by death	9.	Tabular cost							
12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	10.	Reserves released by death	XX		XXX	XXX	XXX	XXX	XXX
12. Annuity, supplementary contract and disability payments involving life contingencies 13. Net transfers to or (from) Separate Accounts 14. Total Deductions (Lines 9 to 13) 15. Reserve December 31 of current year 16. CSV Ending balance December 31, current year 17. Amount Available for Policy Loans Based upon Line 16 CSV	11.	Reserves released by other terminations (net)							
14. Total Deductions (Lines 9 to 13)	12.								
15. Reserve December 31 of current year Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year	13.	Net transfers to or (from) Separate Accounts							
Cash Surrender Value and Policy Loans 16. CSV Ending balance December 31, current year	14.	Total Deductions (Lines 9 to 13)							
16. CSV Ending balance December 31, current year	15.	Reserve December 31 of current year							
17. Amount Available for Policy Loans Based upon Line 16 CSV		Cash Surrender Value and Policy Loans							
	16.	CSV Ending balance December 31, current year							
	17.								

⁽a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

EXHIBIT OF NET INVESTMENT INCOME

		1	2
		Collected During Year	Earned During Year
1.	U.S. Government bonds	(a)9,264	172,373
1.1	Bonds exempt from U.S. tax	` '	
1.2	Other bonds (unaffiliated)	(a)8, 186, 439	8,386,378
1.3	Bonds of affiliates	(a)34,552	
2.1	Preferred stocks (unaffiliated)		
2.11	Preferred stocks of affiliates	` '	
2.2	Common stocks (unaffiliated)		
2.21	Common stocks of affiliates		
3.	Mortgage loans		
4.	Real estate		
5	Contract loans		
6	Cash, cash equivalents and short-term investments	(e)6.468.700	6.468.700
7	Derivative instruments		
8.	Other invested assets		
9.	Aggregate write-ins for investment income		
10.	Total gross investment income	19,854,147	
11.	Investment expenses		(a) 1.191.805
12.	Investment taxes, licenses and fees, excluding federal income taxes		
13.	Interest expense		
14.	Depreciation on real estate and other invested assets		(i)
15.	Aggregate write-ins for deductions from investment income		\ /
16.	Total deductions (Lines 11 through 15)		1, 197, 724
17.	Net investment income (Line 10 minus Line 16)		19,105,899
	DETAILS OF WRITE-INS		
0901.	Miscellaneous income	1,541	1,541
0902.		,	, , , , , , , , , , , , , , , , , , ,
0903.			
0998.	Summary of remaining write-ins for Line 9 from overflow page		
0999.	Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above)	1,541	
1501.		,	,
1502.			
1503.			
1598.	Summary of remaining write-ins for Line 15 from overflow page		
1599.	Totals (Lines 1501 thru 1503 plus 1598) (Line 15, above)		
	, , , , , , , , , , , , , , , , , , ,		L
(a) Incl	des \$391,275 accrual of discount less \$257,712 amortization of premium and less \$207,7	79 naid for accrued int	erest on nurchases
		-	•
b) Inclu	des \$ accrual of discount less \$ amortization of premium and less \$	paid for accrued div	vidends on purchases.

EXHIBIT OF CAPITAL GAINS (LOSSES)

(e) Includes \$6,468,700 accrual of discount less \$ amortization of premium and less \$ paid for accrued interest on purchases.

... investment expenses and \$ investment taxes, licenses and fees, excluding federal income taxes, attributable to

(d) Includes \$ for company's occupancy of its own buildings; and excludes \$ interest on encumbrances.

(f) Includes \$ accrual of discount less \$ amortization of premium.

(h) Includes \$ interest on surplus notes and \$ interest on capital notes.

(i) Includes \$ depreciation on real estate and \$ depreciation on other invested assets.

(g) Includes \$

segregated and Separate Accounts.

	EVUIDIT	OF CAPI	IAL GAIN	3 (LUSSE	.J	
		1	2	3	4	5
		Realized Gain (Loss) On Sales or Maturity	Other Realized Adjustments	Total Realized Capital Gain (Loss) (Columns 1 + 2)	Change in Unrealized Capital Gain (Loss)	Change in Unrealized Foreign Exchange Capital Gain (Loss)
1.	U.S. Government bonds					
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)	(502,428)	(337,584)	(840,012)	(320,678)	
1.3	Bonds of affiliates					
2.1	Preferred stocks (unaffiliated)					
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)				318	
2.21	Common stocks of affiliates					
3.	Mortgage loans					
4.	Real estate					
5.	Contract loans					
6.	Cash, cash equivalents and short-term investments	2,470		2,470		
7.	Derivative instruments					
8.	Other invested assets				(58,704)	
9.	Aggregate write-ins for capital gains (losses)					
10.	Total capital gains (losses)	(499,958)	(337,584)	(837,542)	(379,064)	
	DETAILS OF WRITE-INS					
0901.						
0902.						
0903.						
0998.	Summary of remaining write-ins for Line 9 from overflow page					
0999.	Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above)					

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ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

EXHIBIT - 1 PART 1 - PREMIUMS AND ANNUITY CONSIDERATIONS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

		1	2	3	4	5	6	7	8
		Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident & Health	Fraternal	Other Lines of Business
	FIRST YEAR (other than single)	lotal	individual Life	Group Life	Annuities	Group Annuities	Accident & Health	Fraternal	Business
1	Uncollected								
2.	Deferred and accrued								
	Deferred , accrued and uncollected:								
3.	3.1 Direct								
	3.2 Reinsurance assumed								
	3.3 Reinsurance ceded								
	3.4 Net (Line 1 + Line 2)								
1	Advance								
	Line 3.4 - Line 4								
	Collected during year:								
0.	6.1 Direct								
	6.2 Reinsurance assumed								
	6.3 Reinsurance ceded	414	414						
	6.4 Net		(414)						
7.	Line 5 + Line 6.4	(414)	(414)						
7. 8.	Prior year (uncollected + deferred and accrued - advance)	(414)	(414)						
	First year premiums and considerations:								
9.	First year premiums and considerations.								
	9.1 Direct 9.2 Reinsurance assumed 9.2 Reinsurance assumed 9.2 Reinsurance assumed 9.3 Reinsurance ass								
		414	414						
	9.3 Reinsurance ceded		414						
	9.4 Net (Line 7 - Line 8)	(414)	(414)						
40	*****=								
10.	Single premiums and considerations:								
	10.1 Direct								
	10.2 Reinsurance assumed								
	10.3 Reinsurance ceded								
	10.4 Net								
	RENEWAL								
	Uncollected								
	Deferred and accrued	(20,612,622)	(20,612,622)						
13.	Deferred, accrued and uncollected:								
	13.1 Direct		(17,612,076)	(2,073,410)					
	13.2 Reinsurance assumed								
	13.3 Reinsurance ceded		3,000,546	(2,073,410)					
	13.4 Net (Line 11 + Line 12)		(20,612,622)						
14.	Advance								
	Line 13.4 - Line 14	(20,612,622)	(20,612,622)						
16.	Collected during year:								
	16.1 Direct		25,733,366		4,800				
	16.2 Reinsurance assumed								
	16.3 Reinsurance ceded		24,442,346						
	16.4 Net		1,291,020		4,800				
17.	Line 15 + Line 16.4		(19,321,602)		4,800				
	Prior year (uncollected + deferred and accrued - advance)	(10,779,745)	(10,779,745)						
19.	Renewal premiums and considerations:								
	19.1 Direct		15,841,611	1, 185,896	4,800				
	19.2 Reinsurance assumed								
	19.3 Reinsurance ceded	25,569,364	24,383,468	1, 185,896					
	19.4 Net (Line 17 - Line 18)	(8,537,057)	(8,541,857)		4,800				
	TOTAL								
20.	Total premiums and annuity considerations:				1			1	
	20.1 Direct	17,032,307	15,841,611	1, 185, 896	4,800				
	20.2 Reinsurance assumed				[
	20.3 Reinsurance ceded	25,569,779	24,383,882	1, 185, 896					
	20.4 Net (Lines 9.4 + 10.4 + 19.4)	(8,537,471)	(8,542,271)	, .	4,800				
		(0,001,111)	(0,0.2,271)		1,000	1	1	1	1

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ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

EXHIBIT - 1 PART 2 - POLICYHOLDERS' DIVIDENDS, REFUNDS TO MEMBERS AND COUPONS APPLIED, REINSURANCE COMMISSIONS AND EXPENSE ALLOWANCES AND COMMISSIONS INCURRED (Direct Business Only)

	LAF LINGL ALLOWAI	10LO AIID OC	2	3	(Direct Dusi		6	7	Q
		I	2	3	Individual	3	0	/	Other Lines of
		Total	Individual Life	Group Life	Annuities	Group Annuities	Accident & Health	Fraternal	Business
	POLICYHOLDERS' DIVIDENDS, REFUNDS TO MEMBERS AND COUPONS APPLIED (included in Part 1)								
21.	To pay renewal premiums								
22.	All other								
	REINSURANCE COMMISSIONS AND EXPENSE ALLOWANCES INCURRED								
23.	First year (other than single):								
	23.1 Reinsurance ceded								
	23.2 Reinsurance assumed								
	23.3 Net ceded less assumed								
24.	Single:								
	24.1 Reinsurance ceded								
	24.2 Reinsurance assumed								
	24.3 Net ceded less assumed								
25.	Renewal:								
	25.1 Reinsurance ceded		3.542.933	6.599.336					
	25.2 Reinsurance assumed								
	25.3 Net ceded less assumed	10,142,269	3,542,933	6,599,336					
26.	Totals:	, ,	· · · · · ·	, ,					
	26.1 Reinsurance ceded (Page 6, Line 6)		3.542.933	6.599.336					
	26.2 Reinsurance assumed (Page 6, Line 22)	1 ' ' '		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	26.3 Net ceded less assumed		3,542,933	6 599 336					
	COMMISSIONS INCURRED (direct business only)								
27.	· · · · · · · · · · · · · · · · · · ·	16 684	16 684						
	Single		10,004						
29.	3 3			1.193.896					
30	Deposit-type contract funds	, , , , , , , , , , , , , , , , , , ,			20,909				
24			610 450	1 102 906	20 000				
31.	Totals (to agree with Page 6, Line 21)	1,841,263	618,458	1,193,896	28,909				

EXHIBIT 2 - GENERAL EXPENSES

								_
			Insur			5	6	7
		1	Accident a		4			
			2	3	All Other Lines of			
		Life	Cost Containment	All Other	Business	Investment	Fraternal	Total
1.	Rent	261,395				9,617		271,011
2.	Salaries and wages	2.936.683				108,043		3,044,726
	Contributions for benefit plans for employees					13,150		370.585
	Contributions for benefit plans for agents					11,657		328.511
						11,007		320,311
3.21	Payments to employees under non-funded benefit							
0.00	plans							
3.22	Payments to agents under non-funded benefit							
0.04	plans			•••••				
	Other employee welfare					1,735		48,879
	Other agent welfare							
4.1	Legal fees and expenses	57 , 267				2, 107		59,374
4.2	Medical examination fees				L	2.235		62.975
4.3	Inspection report fees	,						,
	Fees of public accountants and consulting							
4.4	actuaries	18,740				689		19.430
4.5	Expense of investigation and settlement of policy	10,740				009		13,400
4.5	claims	13 040				480		13,519
E 4	Traveling symposes	04 100				2.361		
	Traveling expenses					, -		66,527
	Advertising							310,510
5.3	Postage, express, telegraph and telephone	49,619				1,826		51,445
5.4	Printing and stationery	12,722				468		13, 190
	Cost or depreciation of furniture and equipment					3,394		95,656
		19.069				702		
		19,069				/02		19,771
5.7	Cost or depreciation of EDP equipment and	007.007				40, 400		040 400
	software	337,087				12,402		349,489
6.1	Books and periodicals					461		12,993
6.2	Bureau and association fees	19,325				711		20,036
6.3	Insurance, except on real estate	43 696				1.608		45.304
	Miscellaneous losses					1,473		41.500
	Collection and bank service charges							, -
						576		16,238
	Sundry general expenses					187		5,277
6.7	Group service and administration fees	1,409,362				51,851		1,461,213
6.8	Reimbursements by uninsured plans				L			
	Agency expense allowance					28,471		802.345
	Agents' balances charged off (less \$					20,471		002,040
1.2								
	\$recovered)							
	Agency conferences other than local meetings	69,453				2,555		72,008
8.1	Official publication (Fraternal Benefit Societies							
	Only)	XXX	XXX	XXX	XXX	XXX		
8.2	Expense of supreme lodge meetings (Fraternal							
	Benefit Societies Only)	XXX	XXX	XXX	XXX	XXX		
9.1					L			
92	Investment expenses not included elsewhere					921.399		921.399
	Aggregate write-ins for expenses	488.354				629		488.983
	General expenses incurred					1, 191,805	(b)	(a)9,012,894
11.	General expenses unpaid Dec. 31, prior year							
12.	General expenses unpaid Dec. 31, current year	2,064,155				314.543		
	Amounts receivable relating to uninsured plans,							
10.	prior year							
14.	Amounts receivable relating to uninsured plans,							
17.	current year							
15.	General expenses paid during year (Lines 10+11-							
15.		5,756,934				877.262		6.634.196
	12-13+14)	3,730,934				011,202		0,034,190
	DETAILS OF WRITE-INS							
		471,258						471,258
09.302.	Miscellaneous	17,095				629		17,724
		,	***		1			,
	Summary of remaining write-ins for Line 9.3 from		•••••		1			
03.030.	overflow page							
U0 300	Totals (Lines 09.301 thru 09.303 plus 09.398)		•••••					
Ja.Jaa.	(Line 9.3 above)	488,354				629		488,983
		93,001 to affiliates		to r	I non-affiliates.	029		400,900

EXHIBIT 3 - TAXES, LICENSES AND FEES (EXCLUDING FEDERAL INCOME TAXES)

			Insurance		4	5	6
		1	2 Accident and	3 All Other Lines			
		Life	Health	of Business	Investment	Fraternal	Total
1.	Real estate taxes						
2.	State insurance department licenses and fees	87,100					87,100
3.	State taxes on premiums	357 , 128					357 , 128
4.	Other state taxes, including \$	·					
	for employee benefits	61,583					61,583
5.	U.S. Social Security taxes	244,743			5,919		250,662
6.	All other taxes	ŕ			,		,
7.	Taxes, licenses and fees incurred	750.553			5.919		
8.	Taxes, licenses and fees unpaid Dec. 31, prior year	138.980			978		139,958
9.	Taxes, licenses and fees unpaid Dec. 31, current year	114,318			902		115,220
10.	Taxes, licenses and fees paid during year (Lines 7 + 8 - 9)	775,215			5,996		781,211

EXHIBIT 4 - DIVIDENDS OR REFUNDS

		1 Life	2 Accident and Health
1.	Applied to pay renewal premiums	LIIC	Accident and Health
2.	Applied to shorten the endowment or premium-paying period		
3.	Applied to provide paid-up additions		
4	Applied to provide paid-up annuities		
5.	Total Lines 1 through 4		
6	Paid in cash		
7	Left on deposit		
8	Aggregate write-ins for dividend or refund options		
9.			
9. 10.	Total Lines 5 through 8		
10.	Amount due and unpaid		
11.	Provision for dividends or refunds payable in the following lendar or		
12.	Terminal dividends		
13.			
14.	Amount provisionally held for deferred dividend contract bot it is at an Limit 3		
15.	Total Lines 10 through 14		
16.	Total from prior year		
17.	Total dividends or refunds (Lines 9 + 15 - 16)		
	DETAILS OF WRITE-INS		
0801.			
0802.			
0803.			
0898.	Summary of remaining write-ins for Line 8 from overflow page		
0899.	Totals (Lines 0801 thru 0803 plus 0898) (Line 8 above)		

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5 Credit	6
				(Group and	
Valuation Standard	Total (a)	Industrial	Ordinary	Individual)	Group
0100001. 58 CET NLP 4.00%	1,070,808				
0100002. 58 CSO CRVM 4.50%			965		
0100003. 58 CSO Mod CRVM 4.00%	12,013				
0100004. 80 CSO CRVM 4.50%					
0100005. 80 CSO CRVM 5.50%			, ,		
0100006. 80 CS0 NLP 4.00%			,		
0100007. 80 CS0 3.00%					2,230,000
0100008. 80 CS0 4.00%					
0199997. Totals (Gross)	148,812,508		146,582,508		2,230,000
0199998. Reinsurance ceded	21,049,905		21,049,905		
0199999. Life Insurance: Totals (Net)	127,762,603		125,532,603		2,230,000
0200001. 1994 MGDB Table IY/FIG DEF				XXX	
0200002. a-2000 4.50% B0TH				XXX	
0200003. a-2000 1.25% B0TH				XXX	
0200004. a-2012 1.50% B0TH				XXX	
0200005. a-2012 1.75% B0TH				XXX	
0200006. a-2012 2.25% BOTH				XXX	
0200007. a-2012 3.00% B0TH				XXX	
0200008. a-2012 3.50% B0TH				XXX	
0200009. a-2012 3.75% B0TH				XXX	
0200010. a-2012 4.00% B0TH			,	XXX	
0200011. a-2012 4.50% B0TH				XXX	
		XXX	75,817 .	XXX	
0299997. Totals (Gross)	2,785,718	XXX	2,785,718	XXX	
0299998. Reinsurance ceded		XXX		XXX	
0299999. Annuities: Totals (Net)	2,785,718	XXX	2,785,718	XXX	
0399998. Reinsurance ceded					
0399999. SCWLC: Totals (Net)					
0400001. 59 ADB & 58 CSO 4.50%	1,856		1,856		
0499997. Totals (Gross)	1,856		1,856		
0499998. Reinsurance ceded					
0499999. Accidental Death Benefits: Totals (Net)	1,856		1,856		
0500001. 35-39 INTERCO + 80 CSO 4.00%	20,215		20,215		
0599997. Totals (Gross)	21,565		21,565		
0599998. Reinsurance ceded	,		,		
0599999. Disability-Active Lives: Totals (Net)	21,565		21,565		
0600001. MOD 52 DISAB TABLE BEN 5 4.00%			,		
			'		
			.'		
0699997. Totals (Gross)	8.397.772		8.397.772		
0699998. Reinsurance ceded	5,55.,2		0,00:,::2		
0699999. Disability-Disabled Lives: Totals (Net)	8,397,772		8,397,772		
	121,633		121,633		
	2,113,803		2,113,803		
	583		583		
	480.390	•	480,390		
	5,649		5,649		
0799997. Totals (Gross)	2.722.058		2,722,058		
0799998. Reinsurance ceded	2,122,000		2,122,000		
0799999. Miscellaneous Reserves: Totals (Net)	2 722 050		2 722 050	+	
9999999. Totals (Net) - Page 3, Line 1	2,722,058		2,722,058		

(a) Included in the above table are amounts of deposit-type contracts that originally contained a mortality risk. Amounts of deposit-type contracts in Column 2 that no longer contain a mortality risk are Life Insurance \$; Annuities \$; Supplementary Contracts with Life Contingencies \$; Accidental Death Benefits \$; Disability - Active Lives \$; Disability - Disabled Lives \$; Miscellaneous Reserves \$

EXHIBIT 5 - INTERROGATORIES

1.1	Has the reporting entity ever issued both participating and non-participating contracts?		Yes []	No [Χ]
1.2	If not, state which kind is issued.			_		
0.4	Non-participating		v r	,	. r	v 1
2.1 2.2	If not, state which kind is issued.	•	Yes [J	INO [λJ
	Non-participating					
3.	Does the reporting entity at present issue or have in force contracts that contain non-guaranteed elements?		Yes [X 1	No [1
	If so, attach a statement that contains the determination procedures, answers to the interrogatories and an actuarial opinion as described in the instructions.				Ī	
4.	Has the reporting entity any assessment or stipulated premium contracts in force?		Yes []	No [Χ]
	If so, state:					
	4.1 Amount of insurance?	\$				
	4.2 Amount of reserve?	\$				
	4.3 Basis of reserve:					
	4.4 Basis of regular assessments:					
	4.5 Basis of special assessments:					
	4.6 Assessments collected during the year					
5.	If the contract loan interest rate guaranteed in any one or more of its currently issued contracts is less than 5%, not in advance, state the	¥				
	contract loan rate guarantees on any such contracts.					
6.	Does the reporting entity hold reserves for any annuity contracts that are less than the reserves that would be held on a standard basis?		Yes [1	No [X 1
	6.1 If so, state the amount of reserve on such contracts on the basis actually held:	\$				
	6.2 That would have been held (on an exact or approximate basis) using the actual ages of the annuitants; the interest rate(s) used in 6.1; and the same mortality basis used by the reporting entity for the valuation of comparable annuity benefits issued to standard lives. If the reporting entity has no comparable annuity benefits for standard lives to be valued, the mortality basis shall be the table most recently approved by the state of domicile for valuing individual annuity benefits: Attach statement of methods employed in their valuation.	d				
7.	Does the reporting entity have any Synthetic GIC contracts or agreements in effect as of December 31 of the current year?		V r	,	М. Г	V 1
1.	7.1 If yes, state the total dollar amount of assets covered by these contracts or agreements					
	7.2 Specify the basis (fair value, amortized cost, etc.) for determining the amount:	₽				
	The opposity the basis (tall rates) allocated soot, story to associating the allocated					
	7.3 State the amount of reserves established for this business:	\$				
	7.4 Identify where the reserves are reported in the blank:					
8.	Does the reporting entity have any Contingent Deferred Annuity contracts or agreements in effect as of December 31 of the current year?		Yes [1	No [X 1
	8.1 If yes, state the total dollar amount of account value covered by these contracts or agreements:					
	8.2 State the amount of reserves established for this business:	\$				
	8.3 Identify where the reserves are reported in the blank:					
9.	Does the reporting entity have any Guaranteed Lifetime Income Benefit contracts, agreements or riders in effect as of December 31 of the					
	current year?					
	9.1 If yes, state the total dollar amount of any account value associated with these contracts, agreements or riders:					
	9.2 State the amount of reserves established for this business:	\$				
	9.3 Identify where the reserves are reported in the blank:					

EXHIBIT 5A - CHANGES IN BASES OF VALUATION DURING THE YEAR



EXHIBIT 6 - AGGREGATE RESERVES FOR ACCIDENT AND HEALTH CONTRACTS (a)

	EXIIIDII 0	710011				011710				00111				
		1	Compre	ehensive	4	5	6	7	8	9	10	11	12	13
		Total	2 Individual	3 Group	Medicare Supplement	Vision Only	Dental Only	Federal Employees Health Benefits Plan	Title XVIII Medicare	Title XIX Medicaid	Credit A&H	Disability Income	Long-Term Care	Other Health
	ACTIVE LIFE RESERVE					,	,	-						
1	Unearned premium reserves													
2.	Additional contract reserves (b)													
3.	Additional actuarial reserves-Asset/Liability analysis													
4.	Reserve for future contingent benefits													
5.	Reserve for rate credits													
6.	Aggregate write-ins for reserves													
7.	Totals (Gross)													
8.	Reinsurance ceded													
9.	Totals (Net)													
	CLAIM RESERVE													
10.	Present value of amounts not yet due on claims													
11.	Additional actuarial reserves-Asset/Liability analysis					\								
12.	Reserve for future contingent benefits					,	<u></u>							
13.	Aggregate write-ins for reserves													
14.	Totals (Gross)													
15.	Reinsurance ceded					4								
16.	Totals (Net)													
17.	TOTAL (Net)													
18.	TABULAR FUND INTEREST													
	DETAILS OF WRITE-INS													
0601.														
0602.														
0603.														
0698.	Summary of remaining write-ins for Line 6 from overflow page													
0699.	TOTALS (Lines 0601 thru 0603 plus 0698) (Line 6 above)													1
1301.		.									-			
1302.					-	-					-			
1303.					-						-			
1398.	Summary of remaining write-ins for Line 13 from overflow page				-									
1399.	TOTALS (Lines 1301 thru 1303 plus 1398) (Line 13 above)													

⁽a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

⁽b) Attach statement as to valuation standard used in calculating this reserve, specifying reserve bases, interest rates and methods.

EXHIBIT 7 - DEPOSIT TYPE CONTRACTS

1												
Total Guaranteet Contracts Contrac		1	2	3	4	5 Dividend	6 Bromium and					
Total Interest Contracts Annulles Certain Contracts Retunds Deposit Funds			Guaranteed		Sunnlemental							
1. Balance at the beginning of the year before reinsurance		Total		Annuities Certain								
2. Deposits received during the year		1000	mitor dot dominanto	/ unitalities sortain	o o ma do to	rtolalido	2 oposit i unus					
2. Deposits received during the year	A Division to the first state of the state o	10 617 000		105 671	10 400 100							
3. Investment earnings credited to the account	Balance at the beginning of the year before reinsurance	12,017,003		123,0/1	12,492, 132							
3. Investment earnings credited to the account												
4. Other net change in reserves	Deposits received during the year	773,471			773,471							
4. Other net change in reserves												
4. Other net change in reserves	Investment earnings credited to the account	658,363			658,363							
5. Fees and other charges assessed 6. Surrender charges 7. Net surrender or withdrawal payments 8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)		,			,							
5. Fees and other charges assessed 6. Surrender charges 7. Net surrender or withdrawal payments 8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)	4. Other not change in receives			(90, 639)	ସମ ୧୯୯							
6. Surrender charges 7. Net surrender or withdrawal payments 8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)	4. Other het dialige in reserves			(50,005)								
6. Surrender charges 7. Net surrender or withdrawal payments 8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)												
7. Net surrender or withdrawal payments	5. Fees and other charges assessed											
7. Net surrender or withdrawal payments												
8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)	6. Surrender charges											
8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)												
8. Other net transfers to or (from) Separate Accounts 9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a) 10. Reinsurance balance at the beginning of the year 11. Net change in reinsurance assumed 12. Net change in reinsurance ceded 13. Reinsurance balance at the end of the year (Lines 10+11-12)	7 Net surrender or withdrawal payments	2.959.043			2.959.043							
9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a)					_,,_,							
9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a)	Other net transfers to as /from Consents Associate											
10. Reinsurance balance at the beginning of the year	Other net transfers to or (norm) Separate Accounts.											
10. Reinsurance balance at the beginning of the year												
11. Net change in reinsurance assumed	9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a)	. 11,090,594		35,032	11,055,562							
11. Net change in reinsurance assumed												
12. Net change in reinsurance ceded	10. Reinsurance balance at the beginning of the year											
12. Net change in reinsurance ceded												
12. Net change in reinsurance ceded	11 Net change in reinsurance assumed											
13. Reinsurance balance at the end of the year (Lines 10+11-12)												
13. Reinsurance balance at the end of the year (Lines 10+11-12)	40. Not shows in minutes and d											
	12. Net change in reinsurance ceded	.										
14. Net balance at the end of current year after reinsurance (Lines 9 + 13) 11,090,594 35,032 11,055,562	13. Reinsurance balance at the end of the year (Lines 10+11-12)	.										
14. Net balance at the end of current year after reinsurance (Lines 9 + 13) 11,090,594 35,032 11,055,562												
	14. Net balance at the end of current year after reinsurance (Lines 9 + 13)	11,090,594		35,032	11,055,562							

(a) FHLB Funding Agreements:

1.	Reported as GICs (captured in column 2)\$	
2.	Reported as Annuities Certain (captured in column 3)\$	
3.	Reported as Supplemental Contracts (captured in column 4)\$	
4.	Reported as Dividend Accumulations or Refunds (captured in column 5)\$	
5.	Reported as Premium or Other Deposit Funds (captured in column 6)\$	
6	Total Reported as Deposit-Type Contracts (captured in column 1): (Sum of Lines 1 through 5). \$	

EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 1 - Liability End of Current Year

		1 7111	1 - Liability End of C	ullelit i cai					
		1	2	3	4	5	6	7	8
					Individual				Other Lines of
		Total	Individual Life	Group Life	Annuities	Group Annuities	Accident & Health	Fraternal	Business
1. Due and unpaid:									
	1.1 Direct								
	1.2 Reinsurance assumed								
	1.3 Reinsurance ceded								
	1.4 Net								
2. In course of settlement:									
2.1 Resisted	2.11 Direct								
	2.12 Reinsurance assumed								
	2.13 Reinsurance ceded								
	2.14 Net		(b)	(b)	(b)				
2.2 Other	2.21 Direct	24,906,62	914,649,175	10,257,454					
	2.22 Reinsurance assumed								
	2.23 Reinsurance ceded	16,037,53	33 5,780,079	10,257,454					
	2.24 Net		6 (b)						
Incurred but unreported:					,				
·	3.1 Direct	1,123,86	3 1,123,863						
	3.2 Reinsurance assumed								
	3.3 Reinsurance ceded	396,90	00 396,900						
	3.4 Net		3 (b)726,963						
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
4. TOTALS	4.1 Direct	26,030,49	2 15,773,038	10,257,454					
	4.2 Reinsurance assumed								
	4.3 Reinsurance ceded	16,434,43	336, 176, 979	10,257,454					
	4.4 Net	9,596,05							

a) Including matured endowments (but not guaranteed annual pure endowments) unpaid amounting to	in Column 2 and \$	in Column 3.
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EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 2 - Incurred During the Year

			juic icai					
	1	2	3	4	5	6	7	8
				Individual				Other Lines of
	Total	Individual Life (a)	Group Life (b)	Annuities	Group Annuities	Accident & Health	Fraternal	Business
Settlements During the Year:								
1.1 Direct		92,982,943	15,321,170	604,716				
1.2 Reinsurance assumed								
1.3 Reinsurance ceded		35,732,939						
1.4 Net	(c)61,622,095	57,250,004	3,767,375	604,716				
2. Liability December 31, current year from Part 1:								
2.1 Direct		15,773,038	10,257,454					
2.2 Reinsurance assumed								
2.3 Reinsurance ceded		6,176,979	10,257,454					
2.4 Net	9,596,059	9,596,059						
Amounts recoverable from reinsurers December 31, current year	9,235,047	3,485,974	5,749,073					
4. Liability December 31, prior year:								
4.1 Direct		20,497,174	2,795,895					
4.2 Reinsurance assumed								
4.3 Reinsurance ceded		6, 162, 179	2,795,895					
4.4 Net		14,334,995						
Amounts recoverable from reinsurers December 31, prior year	7,748,657	5,766,960	1,981,697					
6. Incurred Benefits								
6.1 Direct			22,782,729	604,716				
6.2 Reinsurance assumed	, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,				
6.3 Reinsurance ceded			22.782.729					
6.4 Net	55,396,769	, ,	, , ,	604,716				

(a) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$	 in Line 1.1, \$		in Line 1.4.
	\$ in Line 6.1, and	1\$	in Line 6.4.
(b) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$	 in Line 1.1, \$		in Line 1.4.
	\$ in Line 6.1 and	1 \$	in Line 6.4

EXHIBIT OF NON-ADMITTED ASSETS

	EXHIBIT OF NON-ADMITTE	1	2	3
		Current Year Total	Prior Year Total	Change in Total Nonadmitted Assets
		Nonadmitted Assets	Nonadmitted Assets	(Col. 2 - Col. 1)
	Bonds (Schedule D)			
2.	Stocks (Schedule D):			
	2.1 Preferred stocks			
	2.2 Common stocks			
3.	Mortgage loans on real estate (Schedule B):			
	3.1 First liens			
	3.2 Other than first liens			
4.	Real estate (Schedule A):			
	4.1 Properties occupied by the company			
	4.2 Properties held for the production of income			
	4.3 Properties held for sale			
5.	Cash (Schedule E - Part 1), cash equivalents (Schedule E - Part 2) and short-term investments (Schedule DA)			
6.	Contract loans			
7.	Derivatives (Schedule DB)			
8.	Other invested assets (Schedule BA)			
9.	Receivables for securities			
10.	Securities lending reinvested collateral assets (Schedule DL)			
11.	Aggregate write-ins for invested assets			
12.	Subtotals, cash and invested assets (Lines 1 to 11)			
13.	Title plants (for Title insurers only)			
14.	Investment income due and accrued			
15.	Premiums and considerations:			
10.	15.1 Uncollected premiums and agents' balances in the course of collection			
	15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due .			
16	15.3 Accrued retrospective premiums and contracts subject to redetermination			
16.	Reinsurance: 16.1 Amounts recoverable from reinsurers	740		(742)
				, ,
	16.2 Funds held by or deposited with reinsured companies			
	16.3 Other amounts receivable under reinsurance contracts			
17.	Amounts receivable relating to uninsured plans			
18.1	Current federal and foreign income tax recoverable and interest thereon			
18.2	Net deferred tax asset		1,182,085	494,837
19.	Guaranty funds receivable or on deposit			
20.	Electronic data processing equipment and software			
21.	Furniture and equipment, including health care delivery assets			
22.	Net adjustment in assets and liabilities due to foreign exchange rates			
23.	Receivables from parent, subsidiaries and affiliates			
24.	Health care and other amounts receivable			
25.	Aggregate write-ins for other than invested assets			
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	687,990	1, 182,085	494,095
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts			
28.	Total (Lines 26 and 27)	687,990	1,182,085	494,095
	DETAILS OF WRITE-INS			
1101.				
1102.				
1103.				
1198.	Summary of remaining write-ins for Line 11 from overflow page			
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)			
2501.	Totale (2.1.00 T. O. T. II. O. F. II			
2502.				
2503.				
2598.	Summary of remaining write-ins for Line 25 from overflow page			
2599.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)			

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Note 1 - Summary of Significant Accounting Policies and Going Concern

a. Accounting practices:

The accompanying financial statements of MML Bay State Life Insurance Company (the Company) have been prepared in conformity with the Statutory Accounting Practices (SAP) of the National Association of Insurance Commissioners (NAIC) and the accounting practices prescribed or permitted by the State of Connecticut Insurance Department.

A reconciliation of the Company's net income and capital and surplus between NAIC SAP and practices prescribed and permitted by the State of Connecticut is shown below:

		F/S	F/S			
	SSAP#	Page	Line#	2023		2022
NET INCOME					-	
(1) State basis (Page 4, Line 35, Columns 1 & 2)	XXX	XXX	XXX	\$ 7,165,019	\$	14,869,959
(2) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A	-		-
(3) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A	-		-
(4) NAIC SAP (1-2-3=4)	XXX	XXX	XXX	\$ 7,165,019	\$	14,869,959
SURPLUS						
(5) State basis (Page 3, Line 38, Columns 1 & 2)	XXX	XXX	XXX	\$ 232,723,900	\$	252,142,975
(6) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A	-		-
(7) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A	 	_	
(8) NAIC SAP (5-6-7=8)	XXX	XXX	XXX	\$ 232,723,900	\$	252,142,975
					_	

b. Use of estimates in the preparation of the financial statements:

The preparation of financial statements requires management to make estimates and assumptions that impact the reported amounts of assets and liabilities, the disclosure of assets and liabilities as of the date of the statutory financial statements and the reported amounts of revenues and expenses during the reporting periods. The most significant estimates include those used in determining the carrying values of investments including the amount of mortgage loan investment valuation reserves, other-than-temporary impairment(s) (OTTI), the liabilities for policyholders' reserves, the determination of admissible deferred tax assets (DTAs), the liability for taxes and litigation contingencies. Future events including, but not limited to, changes in the level of mortality, morbidity, interest rates, persistency, asset valuations and defaults could cause results to differ from the estimates used in the statutory financial statements. Although some variability is inherent in these estimates, management believes the amounts presented are appropriate.

c. Accounting policy:

Life insurance premium revenue is generally recognized annually on the anniversary date of the policy. However, premium for flexible products, primarily universal life and variable universal life contracts, is recognized as revenue when received. Annuity premium is recognized as revenue when received. Expenses incurred in connection with acquiring new insurance business, including certain acquisition costs, such as commissions, are charged to current operations as incurred. Policy loans are carried at the outstanding loan balance less amounts unsecured by the cash surrender value of the policy. Unsecured amounts can occur when subsequent charges are incurred on the underlying policy without the receipt of additional premium. Where applicable, the values of invested assets have been adjusted for impairments considered OTTI.

In addition, the Company uses the following accounting policies:

- (1) Short-term investments, which are carried at amortized cost, consist of all highly liquid investments purchased with maturities of greater than three months and less than or equal to 12 months. Investments in short-term bonds are classified as shortterm investments.
- (2) Bonds are generally valued at amortized cost using the constant yield interest method with the exception of NAIC Category 6 bonds, which are in or near default, and certain residential mortgage-backed securities (RMBS) and commercial mortgage-backed securities (CMBS), which are rated by outside modelers, which are carried at the lower of amortized cost or fair value. NAIC ratings are applied to bonds and other securities. Categories 1 and 2 are considered investment grade, while Categories 3 through 6 are considered below investment grade. Bond transactions are recorded on a trade date basis, except for private placement bonds, which are recorded on the funding date.

The fair value of bonds is based on quoted market prices when available. If quoted market prices are not available, values provided by other third-party organizations are used. If values provided by other third-party organizations are unavailable, fair value is estimated using internal models by discounting expected future cash flows using observable current market rates applicable to yield, credit quality and maturity of the investment or using quoted market values for comparable investments. Internal inputs used in the determination of fair value include estimated prepayment speeds, default rates, discount rates and collateral values, among others. Structure characteristics and cash flow priority are also considered. Fair values resulting from internal models are those expected to be received in an orderly transaction between willing market participants.

Refer to Note 1c. "Accounting policy" (14) for information on the Company's policy for determining OTTI.

(3) Unaffiliated common stocks are carried at fair value, which is based on quoted market prices when available. If quoted market prices are not available, values provided by third-party organizations are used. If values from third parties are unavailable, fair values are determined by management using estimates based upon internal models. The Company's internal models include estimates based upon comparable company analysis, review of financial statements, broker quotes and last traded price. Fair values resulting from internal models are those expected to be received in an orderly transaction between willing market participants.

Refer to Note 1c. "Accounting policy" (14) for information on the Company's policy for determining OTTI.

The Company did not hold unaffiliated common stocks, for which the transfer of ownership was restricted by contractual requirements, as of December 31, 2023. The Company held unaffiliated common stocks, for which the transfer of ownership was restricted by contractual requirements, with a carrying value of \$22,653 as of December 31, 2022.

- (4) As of December 31, 2023 and 2022, the Company did not hold any preferred stocks.
- (5) Mortgage loans are valued at the unpaid principal balance of the loan, net of unamortized premium, discount, mortgage origination fees and valuation allowances. Mortgage loans comprised primarily seasoned pools of homogeneous residential mortgage loans substantially backed by Federal Housing Administration (FHA) and Veterans Administration (VA) guarantees.

(6) For loan-backed and structured securities, such as asset-backed securities (ABS), mortgage-backed securities (MBS), including RMBS and CMBS, and structured securities, including collateralized debt obligations (CDOs), amortization or accretion is revalued quarterly based on the current estimated cash flows, using either the prospective or retrospective adjustment methodologies.

Certain fixed income securities, with the highest ratings from a rating agency follow the retrospective method of accounting. Under the retrospective method, the recalculated effective yield equates the present value of the actual and anticipated cash flows, including new prepayment assumptions, to the original cost of the investment. Prepayment assumptions are based on borrower constraints and economic incentives such as the original term, age and coupon of the loan as affected by the interest rate environment. The current carrying value is then increased or decreased to the amount that would have resulted had the revised yield been applied since inception, and investment income is correspondingly decreased or increased.

All other fixed income securities, such as floating rate bonds and interest only securities, including those that have been impaired, follow the prospective method of accounting. Under the prospective method, the recalculated future effective yield equates the carrying value of the investment to the present value of the anticipated future cash flows.

Refer to Note 1c. "Accounting policy" (14) for information on the Company's policy for determining OTTI.

- (7) The Company did not own any subsidiaries and did not hold any investments in controlled or affiliated companies.
- (8) The Company did not have any investments in joint ventures, partnerships or limited liability companies (LLCs).
- (9) The Company did not have any derivative financial instruments.
- (10) The Company does not utilize anticipated investment income as a factor in the premium deficiency calculation in accordance with Statutory Accounting Principles (SSAP) No. 54 "Individual and Group Accident and Health Contracts."
- (11) The Company does not have disability of long-term care contracts therefore it does not have any unpaid claim of claim expense reserves related to these products.
- (12) The Company has not modified its capitalization policy from the prior period.
- (13) The Company did not issue any business that would give rise to pharmaceutical rebates or risk sharing receivables.
- (14) The book values of investments are written down when declines in values are considered to be other than temporary.

Bonds - general

The Company employs a systematic methodology to evaluate OTTI by conducting a quarterly analysis of bonds. OTTI is evaluated in a manner consistent with market participant assumptions. The Company considers the following factors, where applicable depending on the type of securities, in the evaluation of whether a decline in value is other than temporary: (a) the likelihood that the Company will be able to collect all amounts due according to the contractual terms of the debt security; (b) the present value of the expected future cash flows of the security; (c) the characteristics, quality and value of the underlying collateral or issuer securing the position; (d) collateral structure; (e) the length of time and extent to which the fair value has been below amortized cost; (f) the financial condition and near-term prospects of the issuer; (g) adverse conditions related to the security or industry; (h) the rating of the security; (i) the Company's ability and intent to hold the investment for a period of time sufficient to allow for an anticipated recovery to amortized cost; and (j) other qualitative and quantitative factors in determining the existence of OTTI including, but not limited to, unrealized loss trend analysis and significant short-term changes in value.

In addition, if the Company has the intent to sell, or the inability, or lack of intent to retain the investment for a period sufficient to recover the amortized cost basis, an OTTI is recognized as a realized loss equal to the entire difference between the investment's amortized cost basis and its fair value at the balance sheet date.

When a bond is other-than-temporarily impaired, a new cost basis is established.

Bonds - corporate

For corporate securities, if it is determined that a decline in the fair value of a bond is other than temporary, OTTI is recognized as a realized loss equal to the difference between the investment's amortized cost basis and, generally, its fair value at the balance sheet date.

Bonds - loan-backed and structured securities

For loan-backed and structured securities, if the present value of cash flows expected to be collected is less than the amortized cost basis of the security, an OTTI is recognized as a realized loss equal to the difference between the investment's amortized cost basis and the present value of cash flows expected to be collected. The expected cash flows are discounted at the security's effective interest rate. Internal inputs used in determining the amount of the OTTI on structured securities include collateral performance, prepayment speeds, default rates, and loss severity based on borrower and loan characteristics, as well as deal structure including subordination, over-collateralization and cash flow priority.

ABS and MBS are evaluated for OTTI using scenarios and assumptions based on the specifics of each security including collateral type, loan type, vintage and subordination level in the structure. Cash flow estimates are based on these assumptions and inputs obtained from external industry sources along with internal analysis and actual experience. Where applicable, assumptions include prepayment speeds, default rates and loss severity, weighted average maturity and changes in the underlying collateral values.

The Company has a review process for determining if CDOs are at risk for OTTI. For the senior, mezzanine and junior debt tranches, cash flows are modeled using multiple scenarios based on the current ratings and values of the underlying corporate credit risks and incorporating prepayment and default assumptions that vary according to collateral attributes of each CDO. The prepayment and default assumptions are varied within each model based upon rating (base case), historical expectations (default), rating change improvement (optimistic), rating change downgrade (pessimistic) and fair value (market). The default rates produced by these multiple scenarios are assigned an expectation weight according to current market and economic conditions and fed into a final scenario. OTTI is recorded if this final scenario results in the loss of any principal or interest payments due.

For the most subordinated junior CDO tranches, the present value of the projected cash flows in the final scenario is measured using an effective yield. If the current book value of the security is greater than the present value measured using an effective yield, an OTTI is taken in an amount sufficient to produce its effective yield. Certain CDOs cannot be modeled using all of the scenarios because of limitations on the data needed for all scenarios. The cash flows for these CDOs, including foreign currency denominated CDOs, are projected using a customized scenario management believes is reasonable for the applicable collateral pool.

For loan-backed and structured securities, any difference between the new amortized cost basis and any increased present value of future cash flows expected to be collected is accreted into net investment income over the expected remaining life of the bond.

Common and preferred stock

The cost basis of common and preferred stocks is adjusted for impairments deemed to be other than temporary. The Company considers the following factors in the evaluation of whether a decline in value is other than temporary: (a) the financial condition and near-term prospects of the issuer; (b) the Company's ability and intent to retain the investment for a period sufficient to allow for a near-term recovery in value; and (c) the period and degree to which the value has been below cost. The Company conducts a quarterly analysis of issuers whose common or preferred stock is not-in-good standing or valued below 80% of cost. The Company also considers other qualitative and quantitative factors in determining the existence of OTTI including, but not limited to, unrealized loss trend analysis and significant short-term changes in value.

Going concern:

There is not substantial doubt regarding the Company's ability to continue as a going concern.

- Note 2 Accounting Changes and Corrections of Errors

 a. For the years ended December 31, 2023 and 2022, the Company did not record any corrections of prior years' errors.
 - b. Adoption of new accounting standards

In June 2022, the NAIC adopted modifications to SSAP No. 25, Affiliates and Other Related Parties and SSAP No. 43R, Loan-Backed and Structured Securities, effective December 31, 2022. The modifications clarify application of the existing affiliate definition and incorporate disclosure requirements for all investments that involve related parties, regardless of whether they meet the affiliate definition. The revisions to SSAP No. 43R also included additional clarifications that the investments from any arrangements that results in direct or indirect control, which include but are not limited to control through a servicer, shall be reported as affiliated investments. The modifications did not have a material effect on the Company's financial statements.

In August 2023, the NAIC adopted INT 23-01T — Disallowed IMR ("INT 23-01T"). INT 23-01T provides optional, limited-term guidance for the assessment of disallowed IMR for up to 10% of adjusted general account capital and surplus. An insurer's capital and surplus must first be adjusted to exclude certain "soft assets" including net positive goodwill, electronic data processing equipment and operating system software, net deferred tax assets and admitted disallowed IMR. An insurer will only be able to admit the negative IMR if the insurer's risk-based capital is over 300% authorized control level after adjusting to remove the assets described above.

As adopted, negative IMR may be admitted first in the insurer's general account and then, if all disallowed IMR in the general account is admitted and the percentage limit is not reached, to the separate account proportionately between insulated and noninsulated accounts. If the insurer can demonstrate historical practice in which acquired gains from derivatives were also reversed to IMR (as liabilities) and amortized, there is no exclusion for derivatives losses. INT 23-01T was adopted by the Company as of September 30, 2023 and will be effective through December 31, 2025. To the extent the Company's IMR balance is a net negative, the effects of INT 23-01T will be reflected in the Company's financial position, results of operations, and financial statement disclosures. The Company has adopted this guidance and the adoption did not result in an admitted disallowed IMR for the year ended December 31, 2023.

In August 2023, the NAIC adopted revisions to clarify and incorporate a new bond definition within disclosures SSAP No. 26 - Bonds, SSAP No. 43 – Asset-Backed Securities, and other related SSAPs, effective January 1, 2025. The revisions were issued in connection with its principle-based bond definition project, the Bond Project.

The Bond Project began in October 2020 through the development of a principle-based bond definition to be used for all securities in determining whether they qualify for reporting on the statutory annual statement Schedule D. Within the new bond definition, bonds are classified as an "issuer credit obligation" or an "asset-backed security." An "issuer credit obligation" is defined as a bond where repayment is supported by the general creditworthiness of an operating entity, and an "asset-backed security" is defined as a bond issued by an entity created for the primary purpose of raising capital through debt backed by financial assets. The revisions to SSAP No. 26 reflect the principle-based bond definition, and SSAP No. 43 provides accounting and reporting guidance for investments that qualify as asset-backed securities under the new bond definition. Upon adoption, investments that do not qualify as bonds will not be permitted to be reported as bonds on Schedule D, Part 1 thereafter as there will be no grandfathering for existing investments that do not qualify under the revised SSAPs. The Company is currently assessing the impacts of the adopted SSAP No. 26, SSAP No. 43 and other related SSAPs in relation to the financial statements.

In March 2023, the NAIC adopted modifications to SSAP No. 34 - Investment Income Due and Accrued, effective December 31, 2023. The modifications require additional disclosures and data capture related to gross, non-admitted and admitted amounts for interest income due and accrued, deferred interest, and paid-in-kind (PIK) interest.

In August 2023, the NAIC adopted revisions to further clarify the PIK interest disclosure in SSAP No. 34, effective December 31, 2023. The revisions clarify that decreasing amounts to principal balances are first applied to any PIK interest included in the principal balance. The original principal would not be reduced until the PIK interest had been fully eliminated from the balance. The revisions also provide a practical expedient for determining the PIK interest in the cumulative balance by subtracting the original principal/ par value from the current principal/ par value, with the resulting PIK interest not to go less than zero. The modifications did not have a material effect on the Company's impact of PIK in relation to the financial statements.

Note 3 - Business Combinations and Goodwill

- The Company did not have any business combinations accounted for using the statutory purchase method.
- b. There were no business combinations taking the form of a statutory merger.
- The Company did not enter into any assumption reinsurance agreements.
- The Company did not recognize an impairment loss on the transactions described above.

Note 4 - Discontinued Operations

The Company did not have any discontinued operations.

Note 5 - Investments

- Mortgage loans
 - (1) During 2023 and 2022, the Company did not purchase residential mortgage loans.
 - (2) During 2023 and 2022, the Company did not own any commercial mortgage loans or mezzanine real estate loans.

- (3) As of December 31, 2023 and 2022, the Company did not have any taxes, assessments and amounts advanced and not included in the mortgage loan total.
- (4) Age analysis of mortgage loans and identification of mortgage loans in which the insurer is a participant or co-lender in a mortgage loan agreement:

	rigago loair agroc			Residen	itial	Commercial		_		
		<u>_ F</u>	arm	Insured	All Other	Insured	All Other	Mezzanine	Tota	1
a.	2023									
	1. Recorded invest	tment (all)								
	(a) Current	\$	- \$	1,335,508 \$	- \$	- \$		- \$	- \$ 1,3	35,508
	(b) 30-59 days	past due	-	-	-	-		-	-	-
	(c) 60-89 days	past due	-	-	-	-		-	-	-
	(d) 90-179 days	s past due	-	-	-	-		-	-	-
	(e) 180+ days p	oast due	-	-	-	-		-	-	-
	Accruing interes	t 90-179								
	days past due									
	(a) Recorded in	vestment \$	- \$	- \$	- \$	- \$		- \$	- \$	-
	(b) Interest acc	rued	-	-	-	-		-	-	-
	Accruing interes	t 180+								
	days past due									
	(a) Recorded in	vestment \$	- \$	- \$	- \$	- \$		- \$	- \$	-
	(b) Interest acc	rued	-	-	-	-		-	-	-
	 Interest reduced 									
	(a) Recorded in	vestment \$	- \$	- \$	- \$	- \$		- \$	- \$	-
	(b) Number of I	oans	-	-	-	-		-	-	-
	(c) Percent red	uced	-	-	-	-		-	-	-
	Participant or co	-lender in a								
	mortgage loan a	greement								
	(a) Recorded in	vestment \$	- \$	- \$	- \$	- \$		- \$	- \$	-
b.	2022									
	 Recorded invest 	tment (all)								
	(a) Current	\$	- \$	1,657,058 \$	- \$	- \$		- \$	- \$ 1,6	57,058
	(b) 30-59 days	past due	-	-	-	-		-	-	-
	(c) 60-89 days	past due	-	-	-	-		-	-	-
	(d) 90-179 days	s past due	-	-	-	-		-	-	-
	(e) 180+ days p	oast due		-	-	-		-	-	-
	Accruing interes	t 90-179								
	days past due									
	(a) Recorded in	vestment \$	- \$	\$	\$	\$		\$	\$	-
	(b) Interest acc	rued	-	-	-	-		-	-	-
	Accruing interes	t 180+								
	days past due									
	(a) Recorded in	vestment \$	- \$	\$	\$	\$		\$	\$	-
	(b) Interest acc	rued	-	-	-	-		-	-	-
	Interest reduced									
	(a) Recorded in	vestment \$	- \$	\$	\$	\$		\$	\$	-
	(b) Number of I	oans	-	-	-	-		-	-	-
	(c) Percent red	uced	-	-	-	-		-	-	-
	5. Participant or co	-lender in a								
	mortgage loan a	greement								
	(a) Recorded in	vestment \$	- \$	- \$	- \$	- \$		- \$	- \$	-

⁽⁵⁾ As of December 31, 2023 and 2022, the Company did not have any impaired mortgage loans with or without allowance for credit losses and subject to a participant or co-lender mortgage loan agreement for which the Company is restricted from unilaterally foreclosing on the mortgage loan.

(6) Investment in impaired loans - average recorded investment, interest income recognized, recorded investment on nonaccrual status and amount of interest income recognized using a cash-basis method of accounting:

				Res	sidential		Commerci	al		
			Farm	Insured	All Oth	er Insur	ed All	Other I	Mezzanine	Total
a.	20	23								_
	1.	Average recorded								
		investment	\$ -	\$	- \$	- \$	- \$	- \$	- \$	-
	2.	Interest income								
		recognized	-		-	-	-	-	-	-
	3.	Recorded investment on								
		nonaccrual status	-		-	-	-	-	-	-
	4.	Amount of interest income								
		recognized using a cash-								
		basis method of accountin	g -		-	-	-	-	-	-
b.	20									
	1.	Average recorded								
		investment	\$ -	\$	- \$	- \$	- \$	- \$	- \$	-
	2.	Interest income								
		recognized	-		-	-	-	-	-	-
	3.	Recorded investment on								
		nonaccrual status	-		-	-	-	-	-	-
	4.	Amount of interest income								
		recognized using a cash-								
		basis method of accountin	g -		-	-	-		-	-

- (7) As of and for the December 31, 2023 and 2022, the Company did not have any mortgage loans with allowance for credit losses nor any changes in the allowance for credit losses.
- (8) As of December 31, 2023, the Company did not have any mortgage loans derecognized as a result of foreclosure.
- (9) Interest income earned on impaired loans is accrued on the outstanding principal balance of the loan based on the loan's contractual coupon rate. Interest is not accrued for (a) impaired loans more than 60 days past due, (b) delinquent loans more than 90 days past due, or (c) loans that have interest that is not expected to be collected. The Company continually monitors mortgage loans where the accrual of interest has been discontinued, and will resume the accrual of interest on a mortgage loan when the facts and circumstances of the borrower and property indicate that the payments will continue to be received according to the terms of the original or modified mortgage loan agreement.
- b. Debt restructuring:

As of December 31, 2023 and 2022, the Company did not have any restructured debt.

c. Reverse mortgages:

As of December 31, 2023, the Company did not have any reverse mortgages.

- d. Loan-backed securities:
 - Prepayment assumptions for loan-backed and structured securities are based on various assumptions and inputs obtained from external industry sources along with internal analysis and actual experience.

(2) The following contains loan-backed and structured securities that recognized other-than-temporary impairments (OTTI) classified on the following bases for recognizing OTTI:

			(1)	(2) OTTI				(3)	
			Amortized		Re	cognize	ed		
			Cost Basis		i	n Loss			
			Before	(2	a)	(2b))		Fair Value
			OTTI	Inte	rest	Non-	interest		1-(2a+2b)
OTTI recognized in a. Intent to sell	n the first quarter	\$		¢		¢		¢	
	ck of intent to retain the investment	Ф	-	Ф	-	Ф	-	Ф	-
•	y for a period of time sufficient to								
	mortized cost basis		66,564		_		2,997		63,566
c. Total first qua	arter	\$	66,564	\$	_	\$	2,997	\$	63,566
•		=				<u> </u>	<u> </u>	<u> </u>	
OTTI recognized in	n the second quarter								
d. Intent to sell		\$	-	\$	-	\$	-	\$	-
•	ck of intent to retain the investment								
	y for a period of time sufficient to								
	mortized cost basis	_	64,028				436	_	63,592
f. Total second	quarter	\$	64,028	\$		\$	436	\$	63,592
OTTI recognized i	n the third querter								
OTTI recognized in g. Intent to sell	ii iile iiliid quartei	\$	_	\$		\$	_	Φ.	_
3	ck of intent to retain the investment	Ψ	_	Ψ	_	Ψ	_	Ψ	_
-	y for a period of time sufficient to								
	mortized cost basis		74,507		-		1,784		72,723
i. Total third qu	arter	\$	74,507	\$	-	\$	1,784	\$	72,723
					-	-		_	
OTTI recognized in	n the fourth quarter								
j. Intent to sell		\$	-	\$	-	\$	-	\$	-
-	ck of intent to retain the investment								
	y for a period of time sufficient to								
	mortized cost basis	_	135,844				5,354	_	130,490
I. Total fourth o	luarter	\$	135,844	\$		\$	5,354	\$	130,490
A	anata tatal			ф.		Φ.	40.574		
m. Annual aggre	egate total			\$		\$	10,571		

All impairments were taken due to the present value of cash flows expected to be collected being less than the amortized cost basis.

(3) The Company did not recognize impaired structured securities where the present value of cash flows expected to be collected is less than the amortized cost basis.

CUSIP	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value at Time of OTTI	Date of Financial Instrument Where Reported
61750FAE0	\$ 66,564	\$ 63,566	\$ (2,997)	\$ 63,566	\$ 59,093	March 31, 2023
61750FAE0	64,028	63,592	(436)	63,592	57,835	June 30, 2023
40431KAE0	48,017	47,312	(705)	47,312	45,025	September 30, 2023
86359A6A6	26,490	25,411	(1,079)	25,411	22,711	September 30, 2023
40431KAE0	47,833	46,563	(1,270)	46,563	46,872	December 31, 2023
61750FAE0	88,011	83,927	(4,084)	83,927	58,643	December 31, 2023
Totals	\$ 340,942	\$ 330,371	\$ (10,571)	\$ 330,371	\$ 290,179	

(4) As of December 31, 2023, the gross unrealized losses and fair values for investments in structured and loan-backed securities for an OTTI has not been recognized in earnings follow:

a. The aggregate amount of unrealized losses:

b.

1. Less than 12 months	\$	(387,236)
2. 12 months or longer	\$	(8,201,957)
The aggregate related fair value of securities with unrealized	losses:	
1. Less than 12 months	\$	3,110,242
2. 12 months or longer	\$	64,445,231

- e. Dollar repurchase agreements and/or securities lending transactions: The Company did not have any dollar repurchase agreements and/or securities lending transactions as of December 31, 2023.
- f. Repurchase agreements transactions accounted for as secured borrowing: The Company did not have any repurchase agreements as of December 31, 2023.

- g. Reverse repurchase agreements transactions accounted for as secured borrowing: The Company did not have any reverse repurchase agreements transactions accounted for as secured borrowing as of December 31, 2023.
- h. Repurchase agreements transactions accounted for as a sale: The Company did not have any repurchase agreements transactions accounted for as a sale as of December 31, 2023.
- i. Reverse repurchase agreements transactions accounted for as a sale: The Company did not have any reverse repurchase agreements transactions accounted for as a sale as of December 31, 2023.
- j. Real estate: The Company did not have any investments in real estate for the years ended December 31, 2023 and 2022.
- k. Low income housing tax credit properties: The Company did not have any these properties for the years ended December 31, 2023 or 2022.

I. Restricted assets:

(1) Restricted assets (including pledged):

			() Restricted				
				Current Year			6	7
		1	2	3	4	5		
		Total General	G/A Supporting	Total Separate Account (S/A)	S/A Assets Supporting G/A	Total	Total from	Increase/ (Decrease)
	Restricted Asset Category	Account (G/A)	S/A Activity (a)	Restricted Assets	Activity (b)	(1 plus 3)	Prior Year	(5 minus 6)
a.	Subject to contractual	Account (G/A)	O/A Activity (a)	Trestricted Assets	Activity (b)	(1 plus 5)	T HOL TEAL	(3 11111143 0)
	obligation for which							
	liability is not shown	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$
b.	Collateral held under							
	security lending agreements	-	-	-	-	-	-	
C.	Subject to repurchase							
	agreements	-	-	-	-	-	-	
d.	Subject to reverse							
	repurchase agreements	-	-	-	-	-	-	
e.	Subject to dollar							
	repurchase agreements	-	-	-	-	-	-	
f.	Subject to dollar reverse							
	repurchase agreements	-	-	-	-	-	-	
g.	Placed under option							
	contracts	-	-	-	-	-	-	
h.	Letter stock or securities							
	restricted as to sale -							
	excluding FHLB capital stock	-	-	-	-	-	-	
i.	FHLB capital stock	-	-	-	-	-	-	
j.	On deposit with states	4,341,227	-	-	_	4,341,227	4,444,563	(103,336
k.	On deposit with other							
	regulatory bodies	-	-	-	-	-	-	
l.	Pledged collateral to FHLB							
	(including assets backing							
	funding agreements)	_	_	-	-	-	-	
m.	Pledged as collateral not							
	captured in other categories	_	_	_	_	_	_	
n.	Other restricted assets	_	_	_	_	_	_	
			_					
٥.	Total restricted assets	\$ 4,341,227	\$ -	\$ -	\$ -	\$ 4,341,227	\$ 4,444,563	\$ (103,336)

⁽a) Subset of column 1

⁽b) Subset of column 3

		Current Year									
		8	9	Perce	ntage						
	Restricted Asset Category	Total Nonadmitted Restricted	Total Admitted Restricted (5 minus 8)	10 Gross (Admitted & Nonadmitted) Restricted to Total Assets (c)	11 Admitted Restricted to Total Admitted Assets (d)						
a.	Subject to contractual										
	obligation for which	\$ -	\$ -	- %	- %						
b.	Collateral held under	=									
	security lending agreements	-	-	-	-						
c.	Subject to repurchase										
	agreements	-	-	-	-						
d.	Subject to reverse	=									
	repurchase agreements										
e.	Subject to dollar	=									
	repurchase agreements	-	-	-	-						
f.	Subject to dollar reverse										
	repurchase agreements	-	-	-	-						
g.	Placed under option										
	contracts	-	-	-	-						
h.	Letter stock or securities										
	restricted as to sale -										
	excluding FHLB capital stock	-	-	-	-						
i.	FHLB capital stock										
j.	On deposit with states	-	4,341,227	0.085	0.085						
k.	On deposit with other										
	regulatory bodies	-	-	-	-						
I.	Pledged collateral to										
	FHLB (including assets										
L	backing funding agreements)	-	-	-	-						
m.	Pledged as collateral not										
L	captured in other categories	-	-	-	-						
n.	Other restricted assets	-	-	-	-						
О.	Total Restricted Assets	\$ -	\$ 4,341,227	0.085 %	0.085 %						

⁽c) Column 5 divided by Asset Page, Column 1, Line 28

(2) Detail of Assets Pledged as Collateral Not Captured in Other Categories (Contracts that Share Similar Characteristics, Such as Reinsurance and Derivatives Are Reported in the Aggregate)

		Gross	(Admitted 8	8	Percentage					
		Current Year					7			
	1 2 3 4 5					9	10			
			Total Separate						Gross (Admitted	Admitted
			Account (S/A)	S/A Assets			Increase/	Total Current	& Nonadmitted)	Restricted Tota
Description of Assets	Total General	G/A Supporting	Restricted	Supporting G/A	Total	Total from	(Decrease)	Year Admitted	Restricted to	Admitted
	Account (G/A)	S/A Activity (a)	Assets	Activity (b)	(1 plus 3)	Prior Year	(5 minus 6)	Restricted	Total Assets	Assets
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	
otal (c)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	

⁽a) Subset of column 1

⁽d) Column 9 divided by Asset Page, Column 3, Line 28

⁽b) Subset of column 3

⁽c) Total Line for Column 1 through 7 should equal 5H (1) in Columns 1 through 7 respectively and Total Line for Columns 8 through 10 should equal 5H (1) Columns 9 through 11 respectively

Detail of Other Restricted Assets (Contracts that Share Similar Characteristics, Such as Reinsurance and Derivatives, Are (3) Reported in the Aggregate)

		Gross	8	Percentage							
		Current Year									
	1 2 3			5	5			9	10		
Description of Assets			Total Separate						Gross (Admitted &	Admitted Restricted Total	
			Account (S/A)	S/A Assets			Increase/	Total Current	Nonadmitted)	Total	
	Total General	G/A Supporting	Restricted	Supporting G/A	Total	Total from	(Decrease)	Year Admitted	Restricted to	Admitted	
	Account (G/A)	S/A Activity (a)	Assets	Activity (b)	(1 plus 3)	Prior Year	(5 minus 6)	Restricted	Total Assets	Assets	
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
*Total(c)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	

- (a) Subset of column 1
- (b) Subset of column 3
- (c) Total Line for Column 1 through 7 should equal 5L (1) in Columns 1 through 7 respectively and Total Line for Columns 8 through 10 should equal 5L (1) Columns 9 through 11 respectively
- m. Working capital finance investments: The Company did not invest in working capital finance investments as of December 31, 2023.
- Offsetting and netting of assets and liabilities: The Company does not currently hold derivatives, repurchase agreements, reverse repurchase agreements or securities lending assets and liabilities as of December 31, 2023.
- 5GI Securities:

	Investment	Number of 5G	Securities	Aggregate	BACV	Aggregate Fair Value		
		Current Year	Prior Year	Current Year	Prior Year	Current Year	Prior Year	
(1)	Bonds - AC							
	LB&SS - AC							
(2)	LB&SS - AC							
(3)	Preferred Stock - AC							
(4)	Preferred Stock - FV							
(5)	Total (1+2+3+4)							

- Short sales The Company does not engage in short sale transactions.
- Prepayment penalty and acceleration fees:

	 Years Ended December 31, 2023					
	General Account		Separate Account			
1. Number of CUSIPS	1		1			
2. Aggregate amount of investment income	\$ 4,314	\$	7,190			

Reporting entity's share of cash pool by asset type - The Company does not have cash in a qualified cash pool.

- Note 6 Joint Ventures, Partnerships and Limited Liability Companies

 a. There were no individual investments in joint ventures, partnerships or LLCs exceeding 10% of admitted assets for the year ended December 31, 2023 and for the year ended December 31, 2022.
 - The Company did not have any investment in joint ventures, partnerships and LLCs, therefore, no impairment write-downs were recognized for the years ended December 31, 2023 or 2022.

Note 7 - Investment Income

- Accrued investment income consists primarily of interest and dividends. Interest is recognized on an accrual basis and dividends are recorded as earned on the ex-dividend date.
- The total amount of due and accrued investment income excluded from surplus was \$0 for the year ended December 31, 2023 and \$0 for the year ended December 31, 2022.
- The gross, nonadmitted and admitted amounts for interest income due and accrued

Interest Income Due and Accrued

Amount

1. Gross

\$ 4,363,447

2. Nonadmitted 3. Admitted

\$ -\$ 4,363,447

d. The aggregate deferred interest

Aggregate Deferred Interest

\$ -

e. The cumulative amounts of paid-in-kind (PIK) interest included in the current principal balance.

Cumulative amounts of PIK interest included in the current principal balance

\$ -

Note 8 – Derivative Instruments

The company did not have any derivative instruments for the years ended December 31, 2023 or 2022.

- Note 9 Income Taxes

 A. The Company provides for deferred income taxes based on an admissibility limitation of 15% of surplus and a three-year reversal/realization period.
 - 1. The net DTA or net deferred tax liability (DTL) recognized in the Company's assets, liabilities and surplus is as follows:

		December 31, 2023						
		_	Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	4,160,900	\$	78,376 -	\$	4,239,276	
(c) (d)	Adjusted gross DTAs DTAs nonadmitted		4,160,900 687,248		78,376 -		4,239,276 687,248	
(e) (f)	Subtotal net admitted DTA Total gross DTLs		3,473,652 1,693,783		78,376 361,247		3,552,028 2,055,030	
(g)	Net admitted DTA(L)	\$	1,779,869	\$	(282,871)	\$	1,496,998	
				Decei	mber 31, 2022			
			Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	4,418,608 -	\$	1,160 -	\$	4,419,768	
(c)	Adjusted gross DTAs		4,418,608		1,160		4,419,768	
(d)	DTAs nonadmitted		1,182,085		-		1,182,085	
(e)	Subtotal net admitted DTA		3,236,523		1,160		3,237,683	
(f)	Total gross DTLs	_	1,142,602		379,841		1,522,443	
(g)	Net admitted DTA(L)	\$	2,093,921	\$	(378,681)	\$	1,715,240	
					Change			
			Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	(257,708)	\$	77,216	\$	(180,492)	
(c)	Adjusted gross DTAs	_	(257,708)		77,216		(180,492)	
(d)	DTAs nonadmitted		(494,837)				(494,837)	
(e)	Subtotal net admitted DTA		237,129		77,216		314,345	
(f)	Total gross DTLs		551,181		(18,594)		532,587	
(g)	Net admitted DTA(L)	\$	(314,052)	\$	95,810	\$	(218,242)	

2. The amount of adjusted gross DTA admitted under each component of the guidance and the resulting change by tax character are as follows:

40 10				Dagam	har 24 2022			
			Ordinary		iber 31, 2023 Capital		Total	
(a) (b)	Federal income taxes paid in prior years recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1 and 2(b)2 below)	\$	-	\$	78,376	\$	78,376	
	 Adjusted gross DTAs expected to be realized following the balance sheet 		1,418,622		-		1,418,622	
	date 2. Adjusted gross DTAs allowed per		1,418,622		-		1,418,622	
(c)	limitation threshold Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b)		34,309,005		-		34,309,005	
(d)	above) offset by gross DTLs DTAs admitted as the result of application of SSAP no. 101		2,055,030		-		2,055,030	
	Total (2(a) + 2(b) + 2(c))	\$	3,473,652	\$	78,376	\$	3,552,028	
(2)	Federal income taxes paid in prior years	_	Ordinary	(Capital		Total	
(a) (b)	recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1	\$	-	\$	1,160	\$	1,160	
	and 2(b)2 below)1. Adjusted gross DTAs expected to be		1,714,080		-		1,714,080	
	realized following the balance sheet date 2. Adjusted gross DTAs allowed per		1,714,080		-		1,714,080	
(c)	limitation threshold Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b)		37,189,130		-		37,189,130	
(d)	above) offset by gross DTLs DTAs admitted as the result of application of SSAP no. 101		1,522,443		-		1,522,443	
	Total $(2(a) + 2(b) + 2(c))$	\$	3,236,523	\$	1,160	\$	3,237,683	
		_			Change			
(a)	Federal income taxes paid in prior years	_	Ordinary	(Capital		Total	
(b)	recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1	\$	-	\$	77,216	\$	77,216	
	 Adjusted gross DTAs expected to be 		(295,458)		-		(295,458)	
	realized following the balance sheet date 2. Adjusted gross DTAs allowed per		(295,458)		-		(295,458)	
(c)	limitation threshold Adjusted gross DTAs (excluding the		(2,880,125)		-		(2,880,125)	
(4)	amount of DTAs from 2(a) and 2(b) above) offset by gross DTLs	_	532,587		-		532,587	
(d)	DTAs admitted as the result of application of SSAP no. 101 Total (2(a) + 2(b) + 2(c))	\$	237,129	\$	77,216	\$	314,345	
	. 5.5. (2(4) - 2(5) - 2(5))	Ψ	201,120	Ψ	, - 10	Ψ	517,070	

3. The Company's total realization threshold limitations are as follows:

		Years Ended December 31,						
			2023		2022			
(a)	Ratio percentage used to determine recovery period and threshold limitation amount		9,665%		10,793%			
(b)	Amount of adjusted capital and surplus used to determine recovery period and threshold limitation in 2(b)2 above.	\$	228,726,701	\$	247,927,534			

4. The ultimate realization of DTAs depends on the generation of future taxable income during the periods in which the temporary differences are deductible. Management considers the scheduled reversal of DTLs (including the impact of available carryback and carryforward periods), projected taxable income and tax-planning strategies in making this assessment. The impact of tax-planning strategies is as follows:

			December 31, 2023							
				Ordinary	Capital					
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a sentage.								
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	4,160,900	\$	78,376				
	2.	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies		-%		-%				
	3.	Net admitted DTAs amount from Note 9A1(e)	\$	3,473,652	\$	78,376				
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		4%		-%				
				Decemb	er 31,	2022				
				Ordinary		Capital				
(b)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a sentage.								
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	4,418,608	\$	1,160				
	2.	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies		-%		-%				
	3.	Net admitted DTAs amount from Note 9A1(e)	\$	2,092,761	\$	-				
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		-%		-%				
				Ch	nange					
			_	Ordinary	larigo	Capital				
(c)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a sentage.								
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	(257,708)	\$	77,216				
	2.	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies		-%		-%				
	3.	Net admitted DTAs amount from Note 9A1(e)	\$	237,129	\$	77,216				
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		4%		-%				
(d)		s the Company's tax planning egies include the use of reinsurance?		Yes_		No_X_				

B. The Company does not have any deferred tax liabilities not recognized.

C. The provision for current tax expense on earnings is as follows:

		Years Ended December 31,									
			2023		2022		Change				
(a)	Federal	\$	(812,660)	\$	1,002,915	\$	(1,815,575)				
(b)	Foreign										
(c)	Subtotal		(812,660)		1,002,915		(1,815,575)				
(d)	Federal income tax on net capital gains		(106,526)		(45,315)		(61,211)				
(e)	Utilization of capital loss carry-forwards		-		-		-				
(f)	Other				<u>-</u>		_				
(g)	Federal and foreign income taxes incurred	\$	(919,186)	\$	957,600	\$	(1,876,786)				

The tax effects of temporary differences that give rise to significant portions of the DTAs and DTLs are as follows:

			2023	December 31, 2022	Change
2.	Def	erred Tax Assets:			
	(a)	Ordinary			
		(1) Discounting of unpaid losses(2) Unearned premium reserve	\$ -	\$ -	\$ -
		(3) Policyholder reserves(4) Investments	692,310	763,888	(71,578)
		(5) Deferred acquisition costs(6) Policyholder dividends accrual	3,142,112 -	3,329,414 -	(187,302) -
		(7) Fixed assets(8) Compensation and benefits accrual	-	-	-
		(9) Pension accrual	-	-	-
		(10) Receivables - nonadmitted(11) Net operating loss carry-forward	-	-	-
		(12) Tax credit carry-forward	-	-	
		(13) Other (14) Subtotal	<u>326,478</u> 4,160,900	325,306 4,418,608	<u>1,172</u> (257,708)
		(14) Subtotal	4,100,000	4,410,000	(201,100)
	(c)	Statutory valuation allowance adjustment Nonadmitted	687,248	1,182,085	(494,837)
	(d)	Admitted ordinary DTAs (2a14 - 2b - 2c)	3,473,652	3,236,523	237,129
(1		Capital (1) Investments (2) Net capital loss carry-forward	78,376 -	1,160 -	77,216 -
		(3) Real estate	-	-	-
		(4) Other (5) Subtotal	78,376	1,160	77,216
	(f)	Statutory valuation allowance adjustment	-	-	_
	(g)	Nonadmitted			
	(h)	Admitted capital DTAs (2e5 - 2f - 2g)	78,376	1,160	77,216
	(i)	Admitted DTAs (2d + 2h)	3,552,028	3,237,683	314,345
3.	Def	erred Tax Liabilities:			
	(a)	Ordinary			
		(1) Investments(2) Fixed Assets	-	-	-
		(2) Fixed Assets(3) Deferred and uncollected premium	226,382	226,382	-
		(4) Policyholder reserves	79,275	118,913	(39,638)
		(5) Other(6) Subtotal	1,388,126 1,693,783	797,307 1,142,602	<u>590,819</u> 551,181
	(b)	Capital			
	-		264 247	270 044	(40.504)
		(1) Investments(2) Real estate	361,247 -	379,841 -	(18,594) -
		(3) Other			
		(4) Subtotal	361,247	379,841	(18,594)
	(c)	Total DTLs (3a6 + 3b4)	2,055,030	1,522,443	532,587
4.	Net	DTA(L) (2i - 3c)	\$ 1,496,998	\$ 1,715,240	\$ (218,242)

The change in net deferred income taxes is comprised of the following:

	Years Ended December 31,							
		2023	2022					
(1) Net DTA(L)	\$	(713,078)	\$	(1,012,809)				
Less: Items not recorded in the change in net deferred income taxes:		-		-				
(2) Tax-effect of unrealized gains/(losses) (3) Tax-effect of change in accounting method for pensions		67,276		(50,881)				
(4) Change in net deferred income taxes	\$	(645,802)	\$	(1,063,690)				

D. The components of federal and foreign income tax on operating items are recorded on the Summary of Operations and Capital and Surplus Account and are different from that which would be obtained by applying the prevailing federal income tax rate to operating income before taxes. The significant items causing this difference are as follows:

		Years Ended December 31,						
			2023		2022			
(1) (2) (3) (4) (5) (6) (7) (8)	Provision computed at statutory rate Nonadmitted assets Foreign governmental income taxes Expense items Investment items Tax credits Change in reserve valuation basis Other	\$	1,305,436 156 - 80 (1,052,255) - (526,801)	\$	3,300,342 (3,951) - 186 (979,082) - (296,206)			
(9)	Total statutory income tax expense (benefit) Federal and foreign income tax benefit	\$	(273,384) (919,186)	\$	2,021,289 957,599			
(10)	(10) Change in net deferred income taxes		645,802		1,063,690			
	Total statutory income tax expense (benefit)	\$	(273,384)	\$	2,021,289			

- E. (1) As of December 31, 2023, the Company had no net operating or capital loss carryforwards to include in deferred income taxes.

 The Company has no total tax credit carryforwards included in deferred taxes.
 - (2) The Company paid federal income taxes in the amount of \$2,438,123 in 2023, received refunds of \$5,189,433 in 2022, and paid federal income taxes of \$3,420,831 in 2021.
 - (3) The total income taxes incurred in the current and prior years that will be available for recoupment in the event of future net capital losses totaled \$0 related to 2023, \$0 related to 2022, and \$1,085,240 related to 2021.
 - (4) As of December 31, 2023 and 2022, the Company had no protective deposits recognized as admitted assets.
- F. (1) The Company is included in a consolidated U.S. federal income tax return with its parent, MassMutual, a mutual life insurance company domiciled in the Commonwealth of Massachusetts, and MassMutual's eligible U.S. subsidiaries. The Company also files income tax returns in various states and foreign jurisdictions.
 - (2) The Company, MassMutual, and MassMutual's eligible subsidiaries and certain affiliates (the Parties) have executed and are subject to a written tax allocation agreement (the Agreement). The Agreement sets forth the manner in which the total combined federal income tax is allocated among the Parties. The Agreement provides the Company with the enforceable right to recoup federal income taxes paid in prior years in the event of future net capital losses, which it may incur. Further, the Agreement provides the Company with the enforceable right to utilize its net losses carried forward as an offset to future net income subject to federal income taxes. In accordance with the Agreement, future corporate alternative minimum tax (CAMT) is outside of the scope of the general tax allocation method and, consequently any future CAMT liability of a subsidiary shall be allocated solely to MassMutual.
- G. (1) Companies are generally required to disclose unrecognized tax benefits, which are the tax effect of positions taken on their tax returns that may be challenged by the various taxing authorities, in order to provide users of financial statements more information regarding potential liabilities. The Company recognizes tax benefits and related reserves in accordance with existing SAP for liabilities, contingencies and impairments of assets. As of December 31, 2023, the Company has no liabilities for unrecognized tax benefits.
 - (2) On August 16th, 2022, the Inflation Reduction Act ("IRA") was signed into law and includes certain corporate income tax provisions. Impacts to the Company could include the imposition of a corporate alternative minimum tax ("CAMT") applicable to tax years beginning after December 31, 2022. The CAMT imposes a 15% minimum tax on adjusted financial statement income on applicable corporations that have an average group wide adjusted financial statement income over \$1 billion in the prior three-year period (2020-2022). As of the reporting date, the Company has determined that it is not an applicable corporation and therefore not liable for CAMT in 2023. While the Company is not an applicable corporation in 2023, any future CAMT liability will be allocated to MassMutual in accordance with the tax allocation agreement. The United States Treasury Secretary and the IRS have been authorized to issue further guidance and intend to publish proposed regulations in 2024.
 - (3) The Internal Revenue Service (IRS) has completed its examination of MassMutual and its subsidiaries for the year 2013 and prior. The 2014-2016 tax years are in Appeals for 3 carryforward issues. The IRS completed its examination of the 2017-2018 tax years and is being transferred to Appeals. The adjustments resulting from these examinations are not expected to materially affect the position or liquidity of the Company.

- H. (1) The Company is not subject to the repatriation transition tax.
- (1) The Company does not have an alternative minimum tax credit.

- Note 10 Information Concerning Parent, Subsidiaries and Affiliates

 a. The Company is a wholly owned subsidiary of C.M. Life Insurance Company (C.M. Life), a stock life insurance company domiciled in the state of Connecticut.
 - In December 31, 2023, the Company declared and paid \$25,000,000 in dividends to C.M. Life. In December 31, 2022, the Company declared and paid \$26,000,000 in dividends to C.M. Life. See Schedule Y for SCA activity.
 - The Company did not have any material related party transactions that were not reported on Schedule Y.
 - The Company reported \$146,021 as amounts due from parent, subsidiaries and affiliates as of December 31, 2023 and \$2,992,034 as of December 31, 2022. The Company reported \$2,378,698 as amounts due to parent, subsidiaries and affiliates as of December 31, 2023 and \$0 as of December 31, 2022. Terms require settlement of these amounts within 30 to 90 days.
 - Pursuant to a management agreement, MassMutual, for a fee, furnishes to the Company, as required, operating facilities, human resources, computer software development and managerial services. Investment and administrative services are also provided to the Company pursuant to a management services agreement with MassMutual. While management believes that these fees are calculated on a reasonable basis, these fees may not necessarily be indicative of the costs that would have been incurred on a stand-alone basis.

The following table summarizes the transactions between the Company and the related parties:

	Years Ended December 31,						
		2023		2022			
Fee income:							
Recordkeeping and other services	\$	-	\$	698,290			
Investment advisory income		1,500,000		1,650,000			
Fee expense:							
Management and service contracts and cost-sharing							
arrangements		8,600,000		7,065,494			
Investment advisory services		-		100,000			

The Company participates in variable annuity exchange programs with MassMutual, where certain variable annuity contract holders can make a nontaxable exchange of their contracts for enhanced MassMutual variable annuity contracts. The Company did not record any surrender benefits in 2023 or 2022 related to these exchange programs.

The Company has a modified coinsurance (Modco) quota-share reinsurance agreement with MassMutual where the Company cedes 100% of the premium on certain bank-owned life insurance policies. In return, MassMutual pays the Company a stipulated expense allowance, death and surrender benefits. The Company retains the assets and related reserves for payment of future benefits on the ceded policies. The Modco adjustment is the mechanism by which MassMutual funds the reserve on the reinsured portion of the risk. It is needed to adjust for the financial effect of the Company holding the reserves on the ceded coverage rather than MassMutual.

The Company has a quota-share reinsurance agreement with MassMutual in which MassMutual assumes specific plans of insurance on a yearly renewable term basis.

The net amounts outstanding and due from MassMutual for the various reinsurance agreements were \$10,952,910 as of December 31, 2023 and \$23,147,077 as of December 31, 2022. These outstanding balances are due and payable with terms ranging from monthly to annually, depending on the agreement in effect.

The following summarizes reinsurance transactions between the Company and MassMutual:

	Years Ended December 31,				
	2023	2022			
Premium expense ceded, related to: Quota-share reimbursement agreements	(4,680,911)	(4,942,302)			
Modified coinsurance adjustments ceded, included in fee and other income	(23,606,065)	(12,332,081)			
Expense allowances on reinsurance ceded, included in fees and other income, related to: Modified coinsurance agreements	659,934	6,485,739			
Policyholders' benefits ceded, related to: Modified coinsurance agreements Quota-share reimbursement agreements	22,782,729 2,309,231	14,340,663 10,057,850			
Experience refunds (paid) received, related to: Modified coinsurance agreements	(1,185,896)	626,788			

- g. All outstanding shares of the Company were owned by its parent.
- h. The Company does not have an investment in its parent.
- As of 2023, the Company did not have an investment in SCAs exceeding 10% of admitted assets.

- j. In 2023, the Company did not have impairment write-downs on its investments in affiliated bonds.
 - In 2022, the Company did not have impairment write-downs on its investments in affiliated bonds.
 - The Company does not have an impairment write-down of any SCA entities during the statement periods.
- k. The Company has no foreign insurance subsidiary whose value is calculated by adjusting annuity GAAP account value reserves using the Commissioners' Annuity Reserve Valuation Method and the related Actuarial Guidelines.
- The Company does not hold an investment in a downstream noninsurance holding company.
- m. The Company does not have investments in foreign or noninsurance SCAs.
- The Company does not have any insurance SCAs for which the audited statutory equity reflects a departure from NAIC statutory accounting practices.
- o. The Company does not have any insurance SCAs for which losses exceeded its investment in the SCA.

Note 11 - Debt

- a. The Company did not have any capital notes or liability for borrowed money as of December 31, 2023 or 2022.
 - The Company did not have any debt that was considered to be extinguished by in-substance defeasance.
 - The Company did not set aside assets after the effective date of this statement solely for satisfying debt obligations.
- b. The Company is not a member of the Federal Home Loan Bank (FHLB) therefore it has no FHLB funding agreements.

Note 12 – Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans

- a. The Company did not have any defined benefit pension plans for which the reporting entity is directly liable.
- b. The Company did not have any pension plans for which the reporting entity is directly liable.
- c. The Company did not have any pension plans for which the reporting entity is directly liable.
- d. The Company did not have any pension plans for which the reporting entity is directly liable.
- e. The Company did not have any defined contribution plans.
- f. The Company did not have multi-employer plans.
- g. Consolidated/Holding Company Plans:
 - MassMutual charges allocated expenses to the Company based on relative weighted commissions for agents and time studies of its employees. The Company recorded an expense of \$687,600 for the year ended December 31, 2023 and \$467,908 for the year ended December 31, 2022 for these plans.
- h. The Company accrues severance-related postemployment benefits and health benefit-related postemployment benefits.
- i. The Company does not apply for a subsidy under the Medicare Part D under the Medicare Modernization Act.

Note 13 - Capital and Surplus, Dividend Restrictions and Quasi-Reorganizations

- a. The Company had 50,000 shares of common stock authorized, 12,501 shares issued and outstanding as of December 31, 2023. The par value of the common stock is \$200 per share.
- b. The Company did not have any preferred stock outstanding.
- c. Without the prior approval of the Insurance Commissioner of the State of Connecticut (the Commissioner), total dividends paid to the Company's shareholder in a twelve month period are limited to the greater of (i) 10% of the Company's surplus as of December 31 of the preceding year or (ii) the net gain from operations for the twelve month period ending on December 31 of the preceding year; each case is determined using statutory accounting policies. In addition, the prior approval of the Commissioner is required if any dividend or distribution exceeds the Company's earned surplus. Under these regulations, \$23,272,390 of shareholder's equity is available for distribution to the shareholder in 2024 without prior regulatory approval.
- d. In December 2023, the Company declared and paid \$25,000,000 in dividends to C.M. Life. In December 2022, the Company declared and paid \$26,000,000 in dividends to C.M. Life.
- e. Within the limits of (3) above, there are no restrictions placed on the portion of Company profits that may be paid as ordinary dividends to the stockholder.
- f. There are no restrictions on unassigned surplus funds.
- g. The Company did not make any advances to surplus.
- h. The Company did not have any stock held for special purposes.
- i. The Company does not have any special surplus funds.
- j. The portion of unassigned funds (surplus) represented by net unrealized gains and (losses) (cumulative, net of deferred tax) was \$(297,559) as of December 31, 2023. The portion of unassigned funds (surplus) represented by net unrealized gains and (losses) (cumulative, net of deferred tax) was \$14,229 as of December 31, 2022.
- k. The Company did not have any surplus debentures or similar obligations.
- I. There were no restatements due to prior quasi-reorganizations.
- m. There were no quasi-reorganizations in the prior ten years.

Note 14 - Liabilities, Contingencies and Assessments

a. Contingent commitments:

In the normal course of business, the Company enters into commitments to purchase certain investments. The majority of these commitments have funding periods that extend between one and five years. The Company is not required to fund commitments once the commitment period expires. As of December 31, 2023 or 2022, the Company had no commitments.

b. Assessments:

The Company is subject to insurance guaranty fund laws in the states in which it does business. These laws assess insurance companies' amounts to be used to pay benefits to policyholders and policy claimants of insolvent insurance companies. Many states allow these assessments to be credited against future premium taxes. The Company believes such assessments in excess of amounts accrued will not materially impact its financial position, results of operations or liquidity.

c. Gain contingencies:

No material gain contingencies were realized subsequent to December 31, 2023 through the filing date.

- d. The Company did not have any claims related to extra contractual obligations in 2023.
- e. The Company has no joint and several liabilities.

f. All other contingencies:

In the normal course of business, the Company is involved in disputes, litigation and governmental or regulatory inquiries, administrative proceedings, examinations and investigations, both pending and threatened. These matters, if resolved adversely against the Company or settled, may result in monetary damages, fines and penalties or require changes in the Company's business practices. The resolution or settlement of these matters is inherently difficult to predict. Based upon the Company's assessment of these pending matters, the Company does not believe that the amount of any judgment, settlement or other action arising from any pending matter is likely to have a material adverse effect on the statement of financial position. However, an adverse outcome in certain matters could have a material adverse effect on the results of operations for the period in which such matter is resolved, or an accrual is determined to be required, on the financial statement financial position, or on our reputation.

The Company evaluates the need for accruals of loss contingencies for each matter. When a liability for a matter is probable and can be estimated, the Company accrues an estimate of the loss and any related insurance recoveries, if any. An accrual is subject to subsequent adjustment as a result of additional information and other developments. The resolution of matters are inherently difficult to predict, especially in the early stages of matter. Even if a loss is probable, due to many complex factors, such as speed of discovery and the timing of court decisions or rulings, a loss or range of loss may not be reasonably estimated until the later stages of the matter. For matters where a loss is material and it is either probable or reasonably possible then it is disclosed. For matters where a loss may be reasonably possible, but not probable, or is probable but not reasonably estimated, no accrual is established, but the matter, if material, is disclosed.

Note 15 – Leases

The Company did not have any lease obligations.

Note 16 – Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk

There were no contracts for the years ended December 31, 2023 or 2022.

Note 17 - Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities

- During 2023 and 2022, the Company did not transfer any receivables that were reported as sales.
- b. Transfer and Servicing of Financial Assets:
 - (1) The Company did not participate in securities lending as of December 31, 2023 or 2022.
 - (2) The Company did not have any servicing assets or liabilities in 2023 or 2022.
 - (3) The Company did not have any servicing assets or liabilities in 2023 or 2022.
 - (4) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2023 or 2022.
 - (5) The Company did not have any transfers of financial assets accounted for as secured borrowing in 2023 or 2022.
 - (6) The Company did not have any transfers of receivables with recourse in 2023 or 2022.
 - (7) See Note 5e1 "Repurchase Agreements".

c. Wash sales:

- (1) In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days of the sale date to enhance the Company's yield on its investment portfolio.
- (2) The Company did not sell any securities with the NAIC Designation 3 or below, or unrated, for the year ended December 31, 2023 or 2022, that were reacquired within 30 days of the sale date.

Note 18 - Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans

The Company did not write any accident and health plans. Therefore, the Company did not have any uninsured accident and health plans.

Note 19 - Direct Premium Written/Produced by Managing General Agents/Third Party Administrators

The Company did not have any premium written through managing general agents or third party administrators.

Note 20 - Fair Value Measurements

a. Fair value is defined as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The authoritative guidance around fair value establishes a measurement framework that includes a hierarchy used to classify the inputs used in measuring fair value. The hierarchy prioritizes the inputs to valuation techniques into three levels. Each level reflects a unique description of the inputs that are significant to the fair value measurements. The levels of the fair value hierarchy are as follows:

Level 1 – Observable inputs in the form of quoted prices for identical instruments in active markets.

Level 2 – Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active or other inputs that are observable or can be derived from observable market data for substantially the full term of the assets or liabilities.

Level 3 – One or more unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using internal models, as well as instruments for which the determination of fair value requires significant management judgment or estimation.

When available, the Company generally uses unadjusted quoted market prices from independent sources to determine the fair value of investments, and classifies such items within Level 1 of the fair value hierarchy. If quoted prices are not available, prices are derived from observable market data for similar assets in an active market or obtained directly from brokers for identical assets traded in inactive markets. Investments that are priced using these inputs are classified within Level 2 of the fair value hierarchy. When some of the necessary observable inputs are unavailable, fair value is based upon internally developed models. These models use inputs not directly observable or correlated with observable market data. Typical inputs, which are integrated in the Company's internal discounted cash flow models and discounted earnings models include, but are not limited to, issuer spreads derived from internal credit ratings and benchmark yields such as the LIBOR, cash flow estimates and earnings before interest, taxes, depreciation and amortization estimates. Investments that are priced with such unobservable inputs are classified within Level 3 of the fair value hierarchy.

The Company has established and maintains policies and guidelines that govern its valuation methodologies and their consistent application. These policies and guidelines address the use of inputs, price source hierarchies and provide controls around the valuation processes. These controls include appropriate review and analysis of prices against market activity or indicators for reasonableness, approval of price source changes, price overrides, methodology changes and classification of fair value hierarchy levels. The valuation policies and guidelines are reviewed and updated as appropriate.

Annually, the Company reviews the primary pricing vendor to validate that the inputs used in that vendor's pricing process are deemed to be market observable as defined above. While the Company was not provided access to proprietary models of the vendor, the reviews have included on-site walk-throughs of the pricing process, methodologies and control procedures for each asset class and level for which prices are provided. The review also included an examination of the underlying inputs and assumptions for a sample of individual securities across asset classes. In addition, the Company and its pricing vendors have an established challenge process in place for all security valuations, which facilitates identification and resolution of prices that fall outside expected ranges. The Company believes that the prices received from the pricing vendors are representative of prices that would be received to sell the assets at the applicable measurement date (exit prices) and are classified appropriately in the hierarchy.

The fair value of individual annuity and supplementary contracts is determined using one of several methods based on the specific contract type. For short-term contracts, generally less than 30 days, the fair value is assumed to be the book value. For investment-type contracts, the fair value is determined by calculating the present value of future cash flows discounted at current market interest rates, the risk-free rate or a current pricing yield curve based on pricing assumptions using assets of a comparable corporate bond quality. Annuities are valued using cash flow projections from the Company's asset-liability management analysis.

(1) The following presents the Company's fair value hierarchy for assets and liabilities that are carried at fair value:

	December 31, 2023										
					Net Asset						
	Level 1	Level 2	Level 3	3	(NAV)	Total					
Financial assets:											
Separate account assets ⁽¹⁾	\$ 1,151,862,442	\$ 2,286,953,895	\$	- \$	-	\$ 3,438,816,337					
Total financial assets carried											
at fair value	\$ 1,151,862,442	\$ 2,286,953,895	\$	- \$	-	\$ 3,438,816,337					

(1)\$1,233,644,539 of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

For the period ended December 31, 2023, there were no significant transfers between Level 1 and Level 2 and the Company does not have any financial instruments that are carried at NAV as a practical expedient.

		December 31, 2022										
	_	Level 1		Level 2		Level 3		(NAV)			Total	
Financial assets: Common stock - unaffiliated	\$	•	\$	-	\$	-	\$	i	-	\$	22,653 3,354,070,806	
Separate account assets ⁽¹⁾ Total financial assets carried	_	1,014,094,845		2,339,975,961								
at fair value	\$	1,014,117,498	\$	2,339,975,961	\$	-	5	<u>-</u>	-	\$	3,354,093,459	

(1)\$1,134,686,743 of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

- (2) The Company does not have any level 3 financial instruments that are carried at fair value and, therefore, are not included in this table.
- (3) The Company reviews the fair value hierarchy classifications at each reporting period. Overall, reclassifications between levels occur when there are changes in the observability of inputs and market activity used in the valuation of a financial asset or liability. Such reclassifications are reported as transfers between levels at the beginning fair value for the reporting period in which the changes occur. Given the types of assets classified as Level 1 (primarily equity securities and mutual fund investments), transfers between Level 1 and Level 2 measurement categories are expected to be infrequent. Transfers into and out of Level 3 are summarized in the schedule of changes in Level 3 assets and liabilities.
- (4) Valuation Techniques and Inputs

The Company determines the fair value of its investments using primarily the market approach or the income approach. The use of quoted prices for identical assets and matrix pricing or other similar techniques are examples of market approaches, while the use of discounted cash flow methodologies is an example of the income approach. The Company attempts to maximize the use of observable inputs and minimize the use of unobservable inputs in selecting whether the market or the

income approach is used.

A description of the significant valuation techniques and inputs to the determination of estimated fair value for the more significant asset and liability classes measured at fair value on a recurring basis and categorized within Level 2 and Level 3 of the fair value hierarchy is as follows:

Separate account assets - These assets primarily include bonds (industrial and miscellaneous; U.S. government and agencies) and derivatives. Their fair values are determined as follows:

Bonds (Industrial and miscellaneous) - These securities are principally valued using the market or the income approaches. Level 2 valuations are based primarily on quoted prices in markets that are not active, broker quotes, matrix pricing or other similar techniques that use standard market observable inputs such as benchmark yields, spreads versus benchmark yields, new issuances, issuer ratings, duration, and trades of identical or comparable securities. Privately placed securities are valued using discounted cash flow models using standard market observable inputs, and inputs derived from, or corroborated by, market observable data including market yield curve, duration, call provisions, observable prices and spreads for similar publicly traded or privately traded issuances that incorporate the credit quality and industry sector of the issuer. This level also includes securities priced by independent pricing services that use observable inputs. Valuations based on matrix pricing or other similar techniques that utilize significant unobservable inputs or inputs that cannot be derived principally from, or corroborated by, observable market data, including adjustments for illiquidity, delta spread adjustments or spreads to reflect industry trends or specific credit—related issues are classified as Level 3. In addition, inputs including quoted prices for identical or similar securities that are less liquid and based on lower levels of trading activity than securities classified in Level 2 are classified as Level 3.

Bonds (U.S. government and agencies) - These securities are principally valued using the market approach. Level 2 valuations are based primarily on quoted prices in markets that are not active, or using matrix pricing or other similar techniques using standard market observable inputs such as the benchmark U.S. Treasury yield curve, the spreads versus the U.S. Treasury yield curve for the identical security and comparable securities that are actively traded.

The use of different assumptions or valuation methodologies may have a material impact on the estimated fair value amounts. For the periods presented, there were no significant changes to the Company's valuation techniques.

- (5) Derivative assets and liabilities fair value disclosures on a gross basis are included in paragraph 1 above. Since there are no derivative assets or liabilities classified in Level 3, the reconciliation disclosures required under paragraphs 2 through 4 are not applicable.
- b. The Company provides additional fair value information in Note 21 Other Items.
- c. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

December 31, 2023 Net Not Practicabl Asset Aggregate Admitted Value (Carrying Fair Value Assets Level 1 Level 2 Level 3 (NAV) Value) Financial assets: Bonds: U. S. government and 4,334,116 \$ 4.332.404 \$ 4.334.116 \$ \$ - \$ \$ agencies 24,088,650 Special revenue 24,088,650 23,836,661 Industrial and 209,706,455 221,004,308 209,706,455 miscellaneous 912.635 992.990 Parent, subsidiaries and 912.635 affiliates Mortgage loans - residential 1,000,000 1,000,000 1,000,000 Cash, cash equivalents and short-term investments 67,096,892 67,096,892 1.010.130 66,086,763 6,429,495 1,151,862,442 3 461 167 307 Separate account assets 4.619.459.244 4.672.460.876 Financial liabilities: Individual annuity contracts 2.432.625 2.432.625 2.432.625 Supplementary contracts 10,548,857 10,548,857 10,548,857

			Decem	ber	31, 2022				
							Net		Not
							Asset	Ρ	racticable
	Aggregate Fair Value	Admitted Assets	Level 1		Level 2	Level 3	Value (NAV)	((Carrying Value)
Financial assets:							,		
Bonds:									
U. S. government and									
agencies	\$ 4,400,260	\$ 4,445,691	\$ -	\$	4,400,260	\$ -	\$ -	\$	-
Special revenue	24,839	24,132	-		24,839	-	-		-
Industrial and miscellaneous	192,480,670	207,449,114	-		192,437,800	42,871	-		-
Parent, subsidiaries and affiliates	844,537	993,621	-		844,537	-	-		-
Common stock - unaffiliated	22,653	22,653	22,653		-	-	-		-
Mortgage loans - residential	1,431,279	1,657,058	-		-	1,431,279	-		-
Cash, cash equivalents and									
short-term investments	111,900,743	111,900,743	1,676,711		110,224,032	-	-		-
Separate account assets	4,473,532,344	4,569,883,814	1,014,094,845		3,452,380,995	7,056,505	-		-
Financial liabilities:									
Individual annuity contracts	2,914,830	2,802,721	-		-	2,914,830	-		-
Supplementary contracts	11,936,662	11,936,662	-		-	11,936,662	-		-

d. As of December 31, 2023 and 2022, the Company had no investments where it was not practicable to estimate fair value.

Note 21 - Other Items

- a. There were no unusual or infrequent items requiring disclosure.
- b. There were no troubled debt restructurings that occurred during the period for which the financial statements are presented.
- c. Other disclosures:

The Company had assets on deposit with government authorities or trustees, as required by law, in the amount of \$4,341,227 as of December 31, 2023 and \$4,444.563 as of December 31, 2022.

Business risks

The Company operates in a business environment subject to various risks and uncertainties. The principal risks include insurance and underwriting risks, investment and interest rate risks and credit risk.

Insurance and underwriting risks

The Company prices its products based on estimated benefit payments reflecting assumptions with respect to mortality, longevity, persistency, interest rates and other factors. If actual policy experience emerges that is significantly and adversely different from assumptions used in product pricing, the effect could be material to the profitability of the Company. The Company reinsures certain life insurance and other long-term care insurance policies to mitigate the impact of its underwriting risk.

Investment and interest rate risks

The fair value, cash flows and earnings of investments can be influenced by a variety of factors including changes in interest rates, credit spreads, equity markets, portfolio asset allocation and general economic conditions. The Company employs a rigorous asset/liability management process to help mitigate the economic impacts of various investment risks, in particular interest rate risk. By effectively matching the market sensitivity of assets with the liabilities they support, the impact of interest rate changes is addressed, on an economic basis, as the change in the value of the asset is offset by a corresponding change in the value of the supported liability.

The levels of U.S. interest rates are influenced by U.S. monetary policies and by the relative attractiveness of U.S. markets to investors versus other global markets. As interest rates increase, certain debt securities may experience amortization or prepayment speeds that are slower than those assumed at purchase, impacting the expected maturity of these securities and the ability to reinvest the proceeds at the higher yields. Rising interest rates may also result in a decrease in the fair value of the investment portfolio. As interest rates decline, certain debt securities may experience accelerated amortization and prepayment speeds than what was assumed at purchase. During such periods, the Company is at risk of lower net investment income as it may not be able to reinvest the proceeds at comparable yields. Declining interest rates may also increase the fair value of the investment portfolio.

Interest rates also have an impact on the Company's products with guaranteed minimum payouts and on interest credited to account holders. As interest rates decrease, investment spreads may contract as crediting rates approach minimum guarantees, resulting in an increased liability.

In periods of increasing interest rates, policy loans, surrenders and withdrawals may increase as policyholders seek investments with higher perceived returns. This could result in cash outflows requiring the Company to sell invested assets at a time when the prices of those assets are adversely affected by the increase in market interest rates, which could cause the Company to realize investment losses

Credit and other market risks

The Company manages its investments to limit credit and other market risks by diversifying its portfolio among various security types and industry sectors as well as purchasing credit default swaps to transfer some of the risk.

Stressed conditions, volatility and disruptions in capital markets or financial asset classes can have an adverse effect on the Company, in part because the Company has a large investment portfolio and assets supporting the Company's insurance liabilities are sensitive to changing market factors. Market factors, including interest rates, credit spread quality, equity prices, consumer spending, business investment, government spending, the volatility and strength of the capital markets, deflation and inflation, all affect the business and economic environment and, ultimately, the profitability of the Company's business. Disruptions in one market or asset class can also spread to other markets or asset classes. Upheavals in the financial markets can also affect the Company's business through their effects on general levels of economic activity, employment and customer behavior.

The CMBS, RMBS and leveraged loan sectors are sensitive to evolving conditions that can impair the cash flows realized by investors and is subject to uncertainty. Management's judgment regarding OTTI and estimated fair value depends upon the evolving investment sector and economic conditions. It can also be affected by the market liquidity, a lack of which can make it difficult to obtain accurate market prices for RMBS and other investments, including CMBS and leveraged loans. Any deterioration in economic fundamentals, especially related to the housing sector could affect management's judgment regarding OTTI.

The Company has investments in structured products exposed primarily to the credit risk of corporate bank loans, corporate bonds or credit default swap contracts referencing corporate credit risk. Most of these structured investments are backed by corporate loans and are commonly known as collateralized loan obligations that are classified as CDOs. The portfolios backing these investments are actively managed and diversified by industry and individual issuer concentrations. Due to the complex nature of CDOs and the reduced level of transparency to the underlying collateral pools for many market participants, the recovery in CDO valuations generally lags the overall recovery in the underlying assets. Management believes its scenario analysis approach, based primarily on actual collateral data and forward looking assumptions, does capture the credit and most other risks in each pool. However, in a rapidly changing economic environment, the credit and other risks in each collateral pool will be more volatile and actual credit performance of CDOs may differ from the Company's assumptions.

The Company continuously monitors its investments and assesses their liquidity and financial viability; however, the existence of the factors described above, as well as other market factors, could negatively impact the market value of the Company's investments. If the Company sells its investments prior to maturity or market recovery, these investments may yield a return that is less than the Company otherwise would have been able to realize.

Asset-based fees calculated as a percentage of the separate account assets are a source of revenue to the Company. Gains and losses in the investment markets may result in corresponding increases and decreases in the Company's separate account assets and related revenue.

The long-term impact of the COVID-19 pandemic is dependent on numerous factors including, but not limited to, the length and severity of the pandemic, the efficacy and rate of vaccine adoption and therapeutics, the responses to the pandemic taken by governments and private sector businesses, and the impacts on MassMutual's policyholders, employees and counterparties. At its height, the pandemic led to significant economic disruption, including significant volatility in the U.S. and international markets, which had an adverse effect on MassMutual's business. The extent to which the COVID-19 pandemic continues to impact MassMutual's business will depend on future developments which are highly uncertain, including the emergence of future variants of COVID-19 and the efficacy of vaccines in the broader population (including with respect to future variants).

Political Uncertainties

Political events, domestically or internationally, may directly or indirectly trigger or exacerbate risks related to product offerings, profitability, or any of the risk factors described above. Whether those underlying risk factors are driven by geopolitics or not, the Company's dynamic approach to managing risks enables management to identify risks, internally and externally, develop mitigation plans, and respond to risks in an attempt to proactively reduce the potential impact of each underlying risk factor on the Company.

- d. The Company did not receive any business interruption recoveries in 2023.
- e. The Company did not have unused transferable or non-transferable state tax credits as of December 31, 2023.
- f. Subprime mortgage related risk exposure:

As of December 31, 2023 and 2022, the Company did not have any direct exposure through investments in subprime mortgage loans.

(1) Direct exposure through other investments

RMBS risk exposure

Portfolios of ABS, including RMBS and CMBS, are evaluated on a periodic basis using scenarios customized by collateral type. The Company performs sensitivity analysis on defaults as loan-to-values change, and on defaults as prepayments change using default curves under various scenarios. The Company combines scenario analysis with a monthly surveillance process in which it compares actual delinquencies and defaults to expectations established at the time securities are acquired as well as expectations considering current market conditions, and performs a statistical review to determine potential losses relative to credit support of troubled loan exposures on a transaction-by-transaction basis.

Management used a combination of external vendor prices, broker quotations and internal models for purposes of deriving fair value. Internal inputs used in the determination of fair value included estimates of prepayment speeds, default rates, discount rates and collateral values, among others. Structure characteristics and results of cash flow priority are also considered. Fair values resulting from internal models are those expected to be received in an orderly transaction between willing market participants at the financial statement date.

The Company holds certain investments backed by pools of residential mortgages. The majority of these investments are included in bonds. The mortgages in these pools have varying risk characteristics and are commonly categorized as being of U.S. government agency, non-agency prime, Alt-A and subprime borrower quality. The Alt-A category includes option adjustable rate mortgages and the subprime category includes 'scratch and dent' or reperforming pools, high loan-to-value pools, and pools where the borrowers have very impaired credit but the average loan-to-value is low, typically 70% or below at origination. In identifying Alt-A and subprime exposure, management used a combination of qualitative and quantitative factors, including FICO scores and loan-to-value ratios.

Residential mortgage loan pools are homogeneous residential mortgage loans substantially backed by FHA and VA guarantees. The Company purchases seasoned loan pools, most of which are FHA insured or VA guaranteed. The Company does not originate any residential mortgages but invests in residential mortgage loan pools which may contain mortgages of subprime credit quality. As of December 31, 2020 and 2019, the Company did not have any direct subprime exposure through purchases of unsecuritized whole-loan pools.

(3) Direct exposure through other investments:

Residential mortgage-backed securities risk exposure:

							Year Ended
		Dece	ember 31, 202	3		Dec	ember 31, 2023
	Actual	(Carrying		Fair		
Alt-A:	Cost		Value		Value		OTTI
a. Residential mortgage-backed securities \$	264,126	\$	340,947	\$	344,234	\$	1,079
b. Commercial mortgage-backed securities	-		-		-		-
c. Collateralized debt obligations	-		-		-		-
d. Structured securities	-		-		-		-
e. Equity investments in SCA	-		-		-		-
f. Other assets	-		-		-		
g. Total \$	264,126	\$	340,947	\$	344,234	\$	1,079

						Υ	ear Ended	
		Dece	ember 31, 2022	2		Dece	mber 31, 2	022
	Actual		Carrying		Fair			
Alt-A:	Cost		Value		Value		OTTI	
a. Residential mortgage-backed securities \$	304,996	\$	380,163	\$	397,615	\$		-
b. Commercial mortgage-backed securities	-		-		-			-
c. Collateralized debt obligations	-		-		-			-
d. Structured securities	-		-		-			-
e. Equity investments in SCA	-		-		-			-
f. Other assets	-		-		-			_
g. Total	304,996	\$	380,163	\$	397,615	\$		_

⁽⁴⁾ The Company has no underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty insurance coverage.

g. Retained asset accounts:

(1) As of December 31, 2023 and 2022, the Company had no retained asset accounts.

(2)	Retained Asset Accounts In Force
	December 31,

	2023	3	2022	
	Number	Balance	Number	Balance
Account aging categories:				
a. Up to and including 12 months	- \$	-	- \$	-
b. 13 to 24 months	-	-	-	-
c. 25 to 36 months	-	-	-	-
d. 37 to 48 months	-	-	-	-
e. 49 to 60 months	-	-	-	-
f. Over 60 months	-			
g. Total	- \$		- \$	

(3)	Indivi	dual	Group		
	Number	Balance	Number	Balance	
a. Retained asset accounts as of January 1, 2023	- \$	-	- \$	_	
b. Retained asset accounts issued	-	-	-	-	
c. Investment earnings credited to retained					
asset accounts	-	-	-	-	
d. Fees and other charges assessed to retained					
asset accounts	-	-	-	-	
e. Retained asset accounts transferred to state					
unclaimed property funds	-	-	-	-	
f. Retained asset accounts closed/withdrawn					
g. Retained asset accounts as of December 31, 2023		<u>-</u>	- \$		

h. Insurance-linked securities:

The Company has not received any proceeds as the issuer, ceding insurer or counterparty of insurance-linked securities.

Note 22 - Events Subsequent

Management of the Company has evaluated subsequent events through February 27, 2024, the date the financial statements were available to be issued to state regulators and subsequently on the Company's website. No events have occurred subsequent to the date of the financial statements.

Note 23 - Reinsurance

- a. Ceded Reinsurance Report:
 - Section 1 General Interrogatories:
 - (1) None of the reinsurers, listed in Schedule S as non-affiliated, are owned in excess of 10% or controlled, either directly or indirectly, by the company or by any representative, officer, trustee, or director of the company.
 - (2) The Company has not issued any policies that are reinsured with a company chartered in a country other than the United States (excluding U.S. Branches of such companies) that is owned in excess of 10% or controlled directly or indirectly by an insured, a beneficiary, a creditor or any other person not primarily engaged in the insurance business.

Section 2 - Ceded Reinsurance Report - Part A:

- (1) There are no reinsurance agreements in effect under which the reinsurer may unilaterally cancel any reinsurance for reasons other than for nonpayment of premium or other similar credits.
- (2) The Company has no reinsurance agreements in effect such that the amount of losses paid or accrued through the statement date may result in a payment to the reinsurer of amounts which, in aggregate and allowing for offset of mutual credits from other reinsurance agreements with the same reinsurer, exceed the total direct premium collected under the reinsured policies.

Section 3 - Ceded Reinsurance Report - Part B:

- (1) If all reinsurance agreements were terminated by either party as of December 31,2023, the resulting reduction in surplus due to loss of reinsurance reserve credits net of unearned premium would be \$11,357,992, assuming no return of the assets (excluding assets in trust) backing these reserves from the reinsurer to the Company.
- (2) No new agreements have been executed or existing agreements amended, since January 1, 2023, to include policies or contracts that were in force or had existing reserves established by the Company as of the effective date of the agreement.
- b. The Company did not write off any reinsurance balances.
- c. The Company did not commute any ceded reinsurance.
- d. The Company did not reinsure any policies with a certified reinsurer whose rating was downgraded or status subject to revocation.
- e. The Company does not have reinsurance of variable annuity contracts with an affiliated captive reinsurer.
- f. The Company does not have reinsurance of variable annuity contracts with an affiliated captive reinsurer.
- g. Ceding entities that utilize captive reinsurers to assume reserves subject to the XXX/AXXX captive framework.
 - (1) Ceding reinsurers in which a risk-based capital shortfall exists per the risk-based capital XXX/AXXX captive reinsurance consolidated exhibit:
 - a. Captives with risk-based capital shortfall

Cession ID	NAIC Company Code	ID Number	Name of Captive Insurer		amount of sk-based capital shortfall
			None	\$	-
			None	\$	-
			None	\$	-
Total					-
	•		tal adjusted capital (TAC)		
1. Total adju	sted capital (T	AC) (Five-Year	Historical Line 30)	\$	-
2. Risk-base	d capital short	fall (Sum of g(1)a1 Column 5)	\$	-
3. Total adju	sted capital (T	AC) before risk	-based capital shortfall (g(1)b1 + g(1)b2))	\$	-

(2) Captive reinsurers for which a non-zero primary security shortfall is shown on the risk-based capital XXX/AXXX reinsurance primary security shortfall by cession exhibit:

Cession ID	NAIC Company Code	ID Number	Name of Captive Insurer	Amount of primary security shortfall
			None	\$ -
			None	\$ -
			None	\$ -
Total				 -

Note 24 - Retrospectively Rated Contracts and Contracts Subject to Redetermination

The Company does not issue group health insurance and therefore did not issue retrospectively rated contracts or contracts subject to redetermination.

Note 25 - Change in Incurred Losses and Loss Adjustment Expenses

There was no increase to reserves in 2023 for incurred losses and loss adjustment expenses attributable to insured events of prior years, which considered corrections of prior year errors.

Note 26 – Intercompany Pooling Arrangements

The Company did not have any intercompany pooling arrangements.

Note 27 - Structured Settlements

The Company did not enter into structured settlement agreements with other life insurers to resolve claims.

Note 28 - Health Care Receivables

The Company did not issue any business that would give rise to pharmaceutical rebates or risk sharing receivables.

Note 29 – Participating Policies

The Company did not issue participating policies.

Note 30 – Premium Deficiency Reserves

The Company did not have any liability for premium deficiency on accident and health contracts or property/casualty contracts.

- Note 31 Reserves for Life Contracts and Annuity Contracts

 a. The Company waives deduction of deferred fractional premium at death and returns any portion of the final premium beyond the date of death. Reserves are computed using continuous functions to reflect these practices. Surrender values were not promised in excess of the legally computed reserves.
 - The Company charges a higher premium on certain contracts that cover substandard mortality risk. For these policies, the reserve calculations are based on a substandard mortality rate, which is a multiple of the standard mortality tables.
 - The Company did not have any insurance in force as of December 31, 2023, for which the gross premium was less than the net premium according to the standard valuation set by the Department.
 - Tabular interest was determined for Variable life general account reserves using a formula that applies a weighted average credited rate to the mean account value.
 - Liabilities for investment-type contracts such as supplementary contracts not involving life contingencies are based on account value or accepted actuarial methods using applicable interest rates. Refer to Note 20 a. "Fair Value Measurements" for information on the Company's policy for determining fair value.
 - The details for other changes:

				Ordinar	у			Group
						Credit Life		
		Industrial	Life	Individual	Supplementary	Group and	Life	
ITEM	Total	Life	Ins.	Annuities	Contracts	Individual	Ins.	Annuities
None	\$ -	- \$	-	-	\$ -	-	\$ -	- \$

Note 32 – Analysis of Annuity Actuarial Reserves and Deposit Type Liabilities by Withdrawal Characteristics

The withdrawal characteristics of the Company's annuity actuarial reserves and deposit-type contracts as of December 31, 2023 are illustrated below:

a. INDIVIDUAL ANNUITIES:

	General Account	Separate Account with Guarantees	Separate Account <u>Nonguaranteed</u>	<u>Total</u>	% of <u>Total</u>
(1) Subject to discretionary withdrawal:					
a. With market value adjustment	\$	\$	\$	\$	%
b. At book value less current					
surrender charge of 5% or more					
c. At fair value			30,899,281	30,899,281	92
d. Total with market value adjustment					
or at fair value (total of 1 through 3)		-	30,899,281	30,899,281	92
e. At book value without					
adjustment (minimal or no charge or					
adjustment)	1,046,702			1,046,702	3
(2) Not subject to discretionary withdrawal	1,739,016			1,739,016	5_
(3) Total * (gross: direct + assumed)	2,785,718		30,899,281	33,684,999	<u>100</u> %
(4) Reinsurance ceded			. , 	<u>-</u>	
(5) Total (net)* (3) - (4)	\$ 2,785,718	\$	\$ 30,899,281	\$ 33,684,999	
(6) Amount included A(1)b above that					
will move to A(1)e for the first time					
within the year after the statement date:	\$	\$	\$ <u> </u>	\$	

^{*} Reconciliation of total annuity actuarial reserves and deposit fund liabilities:

b. GROUP ANNUITIES:

	General Account	Separate Account with Guarantees	Separate Account Nonguaranteed	<u>Total</u>	% of <u>Total</u>
(1) Subject to discretionary withdrawal:	•		•	•	0/
a. With market value adjustment b. At book value less current surrender	\$. \$		\$ <u> </u>	%
charge of 5% or more	_	_	_	_	_
c. At fair value					
 d. Total with market value adjustment or at fair value (total of 1 through 3) 	-				
At book value without adjustment (minimal or no charge or adjustment)			<u> </u>	<u> </u>	-
(2) Net cubicet to discustion on with drawel		-	<u> </u>	-	
(2) Not subject to discretionary withdrawal(3) Total * (gross: direct + assumed)					
(4) Reinsurance ceded			·		
(5) Total (net)* (3) - (4)	\$ -	\$ -	\$ -	\$ -	
(6) Amount included B(1)b above that will move to B(1)e for the first time	,	· •		*	
within the year after the statement date:	\$	\$	\$ <u> </u>	\$	

c. DEPOSIT-TYPE CONTRACTS

(no life contingencies)

	(no life contingencies)						
		General Account	Separate Account with Guarantees	Separate Account Nonguaranteed	Tot	al	% of Total
	(1) Subject to discretionary withdrawal:					_	
	a. With market value adjustment	\$ -	\$ -	\$ -	\$	_	- %
	b. At book value less current surrender	·	·				
	charge of 5% or more	_	_	_		_	_
	c. At fair value					_	
	d. Total with market value adjustment				-		·
	or at fair value (total of 1 through 3)	_	_	_		_	_
	e. At book value without adjustment						
	(minimal or no charge or						
	adjustment)	11,022,651	-	-	11,0	22,651	99
							<u> </u>
	(2) Not subject to discretionary withdrawal	67,942				67,942	1_
	(3) Total * (gross: direct + assumed)	\$ 11,090,593	\$	\$	\$ 11,0	90,593	100 %
	(4) Reinsurance ceded						
	(5) Total (net)* (3) - (4)	\$ 11,090,593	\$	\$	\$ 11,0	90,593	
	(6) Amount included C(1)b above that						
	will move to C(1)e for the first time						
	within the year after the statement date:	\$	\$	\$	\$		
d.				Amount			
	Life and Accident and Health Annual Staten	nent:					
	(1) Exhibit 5, Annuities Section, Total (net)			\$ 2,785	,718		
	(2) Exhibit 5, Supplementary Contracts wit	-	Section, Total (net)		-		
	(3) Exhibit 7, Deposit-Type Contracts, Line(4) Subtotal	e 14, Column 1		11,090 \$ 13,876			
	()			φ 13,670	,312		
	Separate Accounts Annual Statement:						
	(5) Exhibit 3, Line 0299999, Column 2			30,899	,281		
	(6) Exhibit 3, Line 0399999, Column 2				-		
	(7) Policyholders dividend and coupon acc	cumulations			-		
	(8) Policyholder premiums(9) Guaranteed interest contracts				-		
	(10) Other contract deposit funds				-		
	(11) Subtotal			\$ 30,899	,281		
	(12) Combined Total			\$ 44,775	,593		
					_		

Note 33 - Analysis of Life Actuarial Reserves by Withdrawal Characteristics

The withdrawal characteristics of the Company's life actuarial reserves as of December 31, 2023 are illustrated below:

				Account Value	Cash Value	Reserve
a.	Gen	neral Account	-			
	(1)					
		policy loans a. Term Policies with Cash Value	\$	- \$	- \$	
		b. Universal Life	Ψ	- ψ	- ψ	_
		c. Universal Life with Secondary Guarantees		-	-	-
		d. Indexed Universal Life		-	-	-
		e. Indexed Universal Life with Secondary Guarantees		-	-	-
		f. Indexed Life		-	-	-
		Other Permanent Cash Value Life Insurance Variable Life		3,196,624	3,196,624	- 1,128,585
		i. Variable Universal Life		139,997,595	139,303,570	147,683,923
		j. Miscellaneous Reserves		-	-	-
	(2)	Not subject to discretionary withdrawal or no cash values				
		a. Term Policies without Cash Value		XXX	XXX	_
		b. Accidental Death Benefits		XXX	XXX	1,856
		c. Disability - Active Lives		XXX	XXX	21,565
		d. Disability - Disabled Lives		XXX	XXX	8,397,772
	(2)	e. Miscellaneous Reserves	_	XXX	XXX	2,716,409
	(3) (4)	Total (gross: direct + assumed) Reinsurance Ceded	\$	143,194,219 \$	142,500,194 \$	159,950,110 21,049,905
	(5)	Total (net) (3) - (4)	\$	143,194,219 \$	142,500,194 \$	138,900,205
			Ė			
h-	0	anata A account with Community	-	Account Value	Cash Value	Reserve
b.	Sep (1)	arate Account with Guarantees Subject to discretionary withdrawal, surrender values, or				
	(-)	policy loans				
		a. Term Policies with Cash Value	\$	- \$	- \$	-
		b. Universal Life		-	-	-
		Universal Life with Secondary Guarantees Indexed Universal Life		-	-	-
		e. Indexed Universal Life with Secondary Guarantees		-	-	-
		f. Indexed Life		_	_	_
		g. Other Permanent Cash Value Life Insurance		-	-	-
		h. Variable Life		-	-	-
		i. Variable Universal Life		3,434,204,328	3,428,098,617	3,434,204,196
	(2)	j. Miscellaneous Reserves Not subject to discretionary withdrawal or no cash values		-	-	-
		a. Term Policies without Cash Value		XXX	XXX	-
		b. Accidental Death Benefits		XXX	XXX	-
		c. Disability - Active Lives		XXX	XXX	-
		d. Disability - Disabled Lives e. Miscellaneous Reserves		XXX	XXX	-
	(3)	e. Miscellaneous Reserves Total (gross: direct + assumed)	\$	XXX 3,434,204,328 \$	XXX 3,428,098,617 \$	3,434,204,196
	(4)	Reinsurance Ceded	Ψ	σ,404,204,020 φ	-	-
	(5)	Total (net) (3) - (4)	\$	3,434,204,328 \$	3,428,098,617 \$	3,434,204,196
				Account Value	Cash Value	Reserve
C.	Sep	arate Account Nonguaranteed	-	7.000dill Valac	Odon value	11000110
	(1)	Subject to discretionary withdrawal, surrender values, or				
		policy loans	•	•	•	
		a. Term Policies with Cash Value b. Universal Life	\$	- \$	- \$	-
		c. Universal Life with Secondary Guarantees		-	-	_
		d. Indexed Universal Life		-	-	-
		e. Indexed Universal Life with Secondary Guarantees		-	-	-
		f. Indexed Life		-	-	-
		9. Other Permanent Cash Value Life Insurance		7.450.570	7.450.570	-
		h. Variable Life i. Variable Universal Life		7,156,570 1,175,219,891	7,156,570 1,173,957,219	11,878,252 1,174,942,707
		i. Miscellaneous Reserves		1,173,219,091	1,173,937,219	1,174,942,707
	(2)	Not subject to discretionary withdrawal or no cash values		_	_	_
		a. Term Policies without Cash Value		XXX	XXX	-
		b. Accidental Death Benefits		XXX	XXX	-
		C. Disability - Active Lives		XXX	XXX	-
		d. Disability - Disabled Lives e. Miscellaneous Reserves		XXX XXX	XXX XXX	-
	(3)	Total (gross: direct + assumed)	\$	1,182,376,461 \$	1,181,113,789 \$	1,186,820,959
	(4)	Reinsurance Ceded	_			-, . 55,525,555
	(5)	Total (net) (3) - (4)	\$	1,182,376,461 \$	1,181,113,789 \$	1,186,820,959

d.	Amo	unt
Life and Accident and Health Annual Statement:		
(1) Exhibit 5, Life Insurance Section, Total (net)	\$ 127	,762,603
(2) Exhibit 5, Accidental Death Benefits Section, Total (net)		1,856
(3) Exhibit 5, Disability - Active Lives Section, Total (net)		21,565
(4) Exhibit 5, Disability - Disabled Lives Section, Total (net)	8	3,397,772
(5) Exhibit 5, Miscellaneous Reserves Section, Total (net)	2	2,716,409
(6) Subtotal	138	3,900,205
Separate Accounts Annual Statement:		
(7) Exhibit 3, Line 0199999, Column 2	4,621	,025,155
(8) Exhibit 3, Line 0499999, Column 2		-
(9) Exhibit 3, Line 0599999, Column 2		-
(10) Subtotal (Lines (7) through (9))	4,621	,025,155
(11) Combined Total (Lines (6) and (10))	\$ 4,759	,925,360

Note 34 - Premium and Annuity Considerations Deferred and Uncollected

a. Deferred and uncollected life insurance premiums and annuity considerations as of December 31, 2023, were as follows:

	Туре		Gross		et of Loading
(1)	Industrial	\$	-	\$	-
(2)	Ordinary new business		-		-
(3)	Ordinary renewal		(3,000,546)		(3,000,546)
(4)	Credit life		-		-
(5)	Group life		-		-
(6)	Group annuity		-		
(7)	Totals	\$	(3,000,546)	\$	(3,000,546)

Note 35 - Separate Accounts

d

a. Separate account activity:

(1) Separate accounts and sub-accounts are segregated funds administered and invested by the Company, the performance of which primarily benefits the policyholders/contract holders with an interest in the separate accounts. Group and individual variable annuity, variable life and other insurance policyholders/contract holders select from among the separate accounts and sub-accounts made available by the Company. The separate accounts and sub-accounts are offered as investment options under certain insurance contracts or policies. The returns produced by separate account assets increase or decrease separate account reserves. Separate account assets consist principally of marketable securities reported at fair value. Separate account assets can only be used to satisfy separate account liabilities and are not available to satisfy the general obligations of the Company. Separate account administrative and investment advisory fees are included in miscellaneous income.

The separate account classification of all separate account products for the Company is supported by state statute Connecticut Laws Title 38a, Chapter 700b, Sections 38a-433 & 459.

(2) In accordance with the products recorded within the separate accounts, some are considered legally insulated whereas others are not legally insulated from the general account. The legal insulation of the separate account products prevents assets other than seed money or amounts in a supplemental account from being generally available to satisfy claims resulting from the general account.

As of December 31, 2023 and 2022, the Company's NAIC Separate Account Annual Statement included Separate Accounts with legally insulated products of \$ 4,671,020,296 and \$4,564,593,946, respectively. Assets backing products which are not legally insulated are available to satisfy general obligations of the Company. The assets backing legally insulated products from the general account as of December 31, 2023 are attributed to the following:

	Separate Account Assets					
		Legally		Not Legally		
		Insulated		Insulated		
Product/Transaction:						
Stable Value Bank-Owned Life Insurance	\$	2,218,013,977	\$	-		
Bank-Owned Life Insurance - Guaranteed		1,232,203,960		1,440,580		
Individual Variable Universal Life		775,473,186		-		
Corporate-Owned Life Insurance		414,416,067		-		
Individual Variable Annuity		30,913,106				
Total	\$	4,671,020,296	\$	1,440,580		

(3) In accordance with the products/transactions recorded within the separate accounts, some separate account liabilities are guaranteed by the general account. Reserves for guarantees covering death benefits or minimum rates of return are held in the general account. If the investment proceeds are insufficient to cover the rate of return guaranteed for the product or the guaranteed death benefit, the policyholder proceeds will be remitted by the general account.

To compensate the general account for the risk taken, the separate accounts have paid risk charges as follows for the past five years:

2023	\$ -
2022	-
2021	-
2020	-
2019	-

For the year ended December 31, 2023, the general account of the Company had paid \$149,629 toward separate account guarantees. The total separate account guarantees paid by the general account for the preceding years ending December 31, 2022, 2021, 2020, and 2019 was \$93,873, \$158,161, \$107,117, and \$97,757, respectively.

The following separate account products would be classified differently under GAAP than under Statutory accounting principles:

Condition That Requires GAAP General Account Reporting

Product Identifier:

Stable Value Bank-Owned Life Insurance GAAP general account classification due to Investment performance Bank-Owned Life Insurance - Guaranteed GAAP general account classification due to Investment performance

- (4) The Company does not engage in securities lending transactions within the separate accounts.
- b. General nature and characteristics of separate account business:

The Company has guaranteed separate accounts classified as the following: nonindexed, which have reserve interest rates at no greater than 4% and/or to fund a long-term interest guarantee in excess of a year that does not exceed 4%. The Company has nonguaranteed separate accounts that are variable accounts where the benefit is determined by the performance and/or market value of the investments held in the separate account with incidental risk, notional expense and minimum death benefit guarantees.

Information regarding the separate accounts of the Company as of and for the year ended December 31, 2023 is as follows:

		Index		Nonindexed Guarantee Less than/ Equal to 4%	Nonindexed Guarantee More than 4%	Nonguaranteed Separate Accounts	Total
(1)	Premiums, considerations or deposits as of the end of current period	<u>\$</u>	- \$	- \$	- \$	23,567,736\$	23,567,736
Reserve	es as of the end of current period For accounts with assets at:						
(- <i>)</i>	Fair value	\$	- \$	- \$	- \$	1,217,720,241 \$	1,217,720,241
b.	Nonpolicy liabilities		- '	254,393	-	20,282,046	20,536,439
C.	Amortized cost		-	3,434,204,195	-	-	3,434,204,195
d.	Total Reserves*	\$	- \$	3,434,458,588 \$	- \$	1,238,002,287 \$	4,672,460,875
3	By withdrawal characteristics: Subject to discretionary withdrawal: With market value adjustment At fair value At book value, without market value adjustment and with current surrender charge of less than 5% Nonpolicy liabilities Subtotal Not subject to discretionary withdrawal Total	\$ \$	- \$ - - - - \$ - - \$	3,434,204,195 254,393	- - - - - \$	- \$ - 1,217,720,241 - 20,282,046 1,238,002,287 \$ - 13,687,766,007 \$	1,217,720,241 3,434,204,195 20,536,439 4,672,460,875 - 27,375,532,014
(4)	Reserves for Assets Default Risk in Lieu of AVR	\$	- \$	13,687,766,007 \$	- \$	13,687,766,007 \$	-

^{*}Line 2(d) should equal Line 3(c)

c. Reconciliation of net transfers (from) to separate accounts is as follows:

		Dec	ember 31, 2023
(1)	Transfers as reported in the Summary of Operations of the Separate Account Statement:		
	(a) Transfers to separate accounts (Page 4, Line 1.4 and 2)	\$	23,567,735
	(b) Transfers from separate accounts (Page 4, Line 10)		(86,261,288)
<i>(</i> =)	(c) Net transfers to (from) separate accounts (a) - (b)		(62,693,553)
(2)	Reconciling adjustments:		
	(1c) + (2) = (Page 4, Line 26)		(62,693,553)

Note 36 - Loss/Claim Adjustment Expenses

The Company did not have any loss/claim adjustment expenses.

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES GENERAL

If yes, complete Scheduler Y, Parts 1, 1A, 2 and 3. 12. If yes, complete Scheduler Y, Parts 1, 1A, 2 and 3. 13. If yes, complete Scheduler Y, Parts 1, 1A, 2 and 3. 14. If yes, did the reporting entity register and reflex with its demolitary Quantum Commissioner, Director or Superinterdort or with providing discourse authorised year where the tender adopted by the Notice Insurance Commissioner (NAC) in its National Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regulatory Association of Insurance Commissioner (NAC) in the National Regu	1.1	Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of whis an insurer?	
sub-inequisitory difficult of the stake of domicitie of the principal insurer in the Holding Company System, a registration statement providing discourse substantially similar to the standards and discourse in the reporting entity. 1.3 State Regulating? 1.5 If the response of 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group. 1.6 If the response of 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group. 2.1 Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? 2.1 Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? 2.2 If yes, give fail the state of the state financial examination report became available from either the state of domicile or the reporting entity? 2.2 If yes, give fail the state of the state financial examination or the reporting entity was made or is being made. 2.1 State has of what date the latest financial examination or port became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination report and not the date of the examination report and not the date of the examination of the state of concile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination or examination report and not the date of the examination or examination report and not the date of the examination or examination report and not the date of the examination or examination report and not the date of the examination or examinati		If yes, complete Schedule Y, Parts 1, 1A, 2 and 3.	
Is the response to 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group.	1.2	such regulatory official of the state of domicile of the principal insurer in the Holding Company System, a registration statement providing disclosure substantially similar to the standards adopted by the National Association of Insurance Commissioners (NAIC) in its Model Insurance Holding Company System Regulatory Act and model regulations pertaining thereto, or is the reporting entity	'es [X] No [] N/A []
If the response to 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group. Pass any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? Pass	1.3	State Regulating?	CT
2.1 Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? 2.2 If yes, date of change: 3.2 If yes, date of change: 3.3 State has of what date the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released. 3.2 State has of what date that leatest financial examination report became available from either the state of domicile or the reporting entity. This is the release date or completion date for the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the committee of the experting entity. This is the release date or completion date of the examination report and not the date of the committee of the experting entity. This is the release date or completion date of the examination report and not the date of the committee of the examination report and not the date of the examination report and not the date of the examination report deem examination report been accounted for in a subsequent financial statement distribution of the examination report been accounted for in a subsequent financial statement filled with Departments? 3.5 Have all of the recommendations within the latest financial examination report been complied with? 4.1 During the period covered by this statement, did any agent, troker, sales representative, non-efficiate dates/service organization or any combination thereof under common control (other has aslanded employees of the reporting entity, receive eredit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.1 Lates of new business? 4.2 During the period covered by this statement, did any substances or reporting entity has part of the merger	1.4	Is the reporting entity publicly traded or a member of a publicly traded group?	Yes [] No [X]
reporting entity?	1.5	If the response to 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group	_
3.1 State as of what date the latest financial examination of the reporting entity was made or is being made. 12/31/2019 2. State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released. 12/31/2019 3.3 State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the date of the examination (balance sheet date). 66/16/2021 3.4 By what department or departments? 3.5 Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filled with Departments? 3.6 Have all of the recommendations within the latest financial examination report been accounted for in a subsequent financial statement filled with Departments? 3.6 Have all of the recommendations within the latest financial examination report been accounted for in a subsequent financial statement filled with Departments? 3.6 Have all of the recommendations within the latest financial examination report been accounted for in a subsequent financial statement filled with Department fill any against the substantial part (more than 20 percent of any major line of business financial statement filled for any against fill any against the part of the combination thereof under common control (other than saladed enables) and the part of the combination thereof under common control (other than saladed enables) and the part of the combination for a control as substantial part (more than 20 percent of any major line of business measured on direct premiums) of 4.12 renewals? 4.22 renewals? 4.22 renewals? 4.22 renewals? 4.23 renewals? 4.24 renewals? 4.25 renewals? 4.25 renewals? 4.26 renewals? 4.27 re	2.1		
3.2 State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released. 3.3 State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date). 3.4 By what department or departments? 3.5 State of Connecticul Insurance Department 3.5 Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filled with Departments? 4.1 During the period covered by this statement, did any agent, broker, sales representative, non-affiliated sales/service organization or any combination thereof under common control (other than salared employees of the reporting entity), receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.11 sales of new business? 4.12 renewals? 4.21 renewals? 4.22 During the period covered by this statement, did any sales/service organization owned in whole or in part by the reporting entity or an affiliate, receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.21 sales of new business? 4.22 renewals? 5.1 Has the reporting entity been a party to a merger or consolidation during the period covered by this statement? 4.22 renewals? 5.3 No [X] 7 Yes [] No [X] 8 Yes [] No [X] 8 Yes [] No [X] 9 Yes [] N	2.2	If yes, date of change:	
entity. This date should be the date of the examined blance sheet and not the date the report was completed or released	3.1	State as of what date the latest financial examination of the reporting entity was made or is being made	12/31/2019
demicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (belance sheet date). 84. By what department or departments? 85. State of Connecticut Insurance Department 85. Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments? 86. If yes, given the latest financial examination report been accounted for in a subsequent financial statement filed with Departments? 87. If yes, given the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments? 9	3.2		12/31/2019
State of Connecticut Insurance Department 3.5 Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments?	3.3	domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the	06/16/2021
statement filed with Departments? Yes [] No [] N/A [X] No	3.4		
4.1 During the period covered by this statement, did any agent, broker, sales representative, non-affiliated sales/service organization or any combination thereof under common control (other than salaried employees of the reporting entity), receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.11 sales of new business? 4.12 renewals? 4.21 sales of new business? 4.21 sales of new business? 4.21 sales of new business? 4.22 renewals? 5.1 Has the reporting entity been a party to a merger or consolidation during the period covered by this statement? 4.22 renewals? 5.2 If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation. 1	3.5		'es [] No [] N/A [X]
combination thereof under common control (other than salaried employees of the reporting entity), receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.11 sales of new business? 4.12 Puring the period covered by this statement, did any sales/service organization owned in whole or in part by the reporting entity or an affiliate, receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.21 sales of new business? 4.21 sales of new business? 4.21 sales of new business? 4.22 renewals? 7/es [] No [X] 4.25 renewals? 7/es [] No [X] 4.26 renewals? 7/es [] No [X] 4.27 renewals? 7/es [] No [X] 4.28 renewals? 8/es [] No [X] 4.29 renewals? 8/es [] No [X] 4.21 sales of new business? 4/es [] No [X] 4.22 renewals? 8/es [] No [X]	3.6	Have all of the recommendations within the latest financial examination report been complied with?	es [X] No [] N/A []
2. During the period covered by this statement, did any sales/service organization owned in whole or in part by the reporting entity or an affiliate, receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.21 sales of new business?	4.1	combination thereof under common control (other than salaried employees of the reporting entity), receive credit or commissions for or co a substantial part (more than 20 percent of any major line of business measured on direct premiums) of: 4.11 sales of new business?	Yes [] No [X]
4.21 sales of new business? 4.22 renewals? 1 Has the reporting entity been a party to a merger or consolidation during the period covered by this statement? 1 fyes, complete and file the merger history data file with the NAIC. 1 fyes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation. 1 NAIC Company Code State of Domicile 1 No [X] NAIC Company Code State of Domicile 1 Has the reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period? 1 fyes, give full information: 1 Does any foreign (non-United States) person or entity directly or indirectly control 10% or more of the reporting entity? 1 Fyes, 7.21 State the percentage of foreign control; 7.22 State the nationality(s) of the foreign person(s) or entity(s); or if the entity is a mutual or reciprocal, the nationality of its manager or attorney-in-fact and identify the type of entity(s) (e.g., individual, corporation, government, manager or attorney-in-fact).	4.2	During the period covered by this statement, did any sales/service organization owned in whole or in part by the reporting entity or an affiliar receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct	
If yes, complete and file the merger history data file with the NAIC. 5.2 If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation. 1		4.21 sales of new business?	
ceased to exist as a result of the merger or consolidation. 1	5.1		Yes [] No [X]
Name of Entity NAIC Company Code State of Domicile Name of Entity NAIC Company Code State of Domicile Name of Entity NAIC Company Code State of Domicile Name of Entity State of Domicile Yes [] No [X] No [X] No [X] No [X] No [X] No [X] No [X] No [X] No [X] No [X]	5.2		
revoked by any governmental entity during the reporting period?		Name of Entity NAIC Company Code State of Domicile	
7.1 Does any foreign (non-United States) person or entity directly or indirectly control 10% or more of the reporting entity?	6.1		
7.1 Does any foreign (non-United States) person or entity directly or indirectly control 10% or more of the reporting entity?	6.2		
7.21 State the percentage of foreign control;	7.1		
1 2	7.2	7.21 State the percentage of foreign control;	······ %

8.3 8.4] No []
	1	2	3	4	5	6	
	Affiliate Name	Location (City, State)	FRB	OCC	FDIC		
	Barings LLCBaring International Investment Limited						
	Barings Securities LLC					YES	
	MML Distributors, LLC						
	MML Investment Advisers, LLC					YES	
	MML Investors Services, LLC					YES	
	MM Strategic Distributors IIC	Springfield MA				YES	
	MML Strategic Distributors, LLC	Windsor CT		YES		120	
	Flourish Financial, LLC	New York, NY				YES	
8.5	Is the reporting entity a depository institution holding company Federal Reserve System or a subsidiary of the depository instill fresponse to 8.5 is no, is the reporting entity a company or su Federal Reserve Board's capital rule?	with significant insurance operations as defined by the tution holding company?bidiary of a company that has otherwise been made	ne Board of G	overnors	s of	Yes []] No [X]] N/A [
9.	What is the name and address of the independent certified put	•					
10.1 10.2	KPMG, LLP, One Financial Plaza, Hartford, CT 06103	non-audit services provided by the certified indeper Reporting Model Regulation (Model Audit Rule), or	dent public ac substantially s	countar imilar st	it ate	Yes []] No [X]
10.3	Has the insurer been granted any exemptions related to the oth	her requirements of the Annual Financial Reporting I	Model Regulat	ion as		V ['	1 N- F V 1
10.4	allowed for in Section 18A of the Model Regulation, or substan If the response to 10.3 is yes, provide information related to thi	s exemption:				res []] No [X]
10.5 10.6	Has the reporting entity established an Audit Committee in con If the response to 10.5 is no or n/a, please explain. NA	npliance with the domiciliary state insurance laws?			Yes [X] No [] N/A [
11.	What is the name, address and affiliation (officer/employee of firm) of the individual providing the statement of actuarial opinic Vy Q. Ho, Head of Valuation and Appointed Actuary Massachu Telephone:413-744-1142 Email: VHo66@massmutual.com	on/certification? ısetts Mutual Life Insurance Company 1295 State St	reet, Springfie	eld, MA C	1111		
12.1	Does the reporting entity own any securities of a real estate ho	lding company or otherwise hold real estate indirectl	y?			Yes [X]] No []
	12.11 Name	of real estate holding company See 12.2					
	12.12 Number	er of parcels involved				14	
	12.13 Total b	oook/adjusted carrying value				\$	9,934,23
12.2	If yes, provide explanation	, , ,					
	The company has investments in debt securities in 14 parcels, 2023 of debt is \$9,934,236.						
13.	FOR UNITED STATES BRANCHES OF ALIEN REPORTING	ENTITIES ONLY:					
13.1	What changes have been made during the year in the United S	_					
13.2	•					Yes []] No []
13.3	Have there been any changes made to any of the trust indentu	res during the year?				Yes []] No []
13.4	If answer to (13.3) is yes, has the domiciliary or entry state app	roved the changes?			Yes [] No [] N/A [X
14.1						Yes [X]] No []
	 b. Full, fair, accurate, timely and understandable disclosure in t c. Compliance with applicable governmental laws, rules and re d. The prompt internal reporting of violations to an appropriate 	gulations;	ng entity;				
4.11	e. Accountability for adherence to the code. If the response to 14.1 is No, please explain:						
	Has the code of ethics for senior managers been amended?					Yes [X]] No []
4.21	If the response to 14.2 is yes, provide information related to an Code has been updated to reflect policy name changes and re modernize and make more user friendly.	moved policy links from the document. Additionally i					
						v r ·	1 N. FV 1
14.3	Have any provisions of the code of ethics been waived for any	of the specified officers?				Yes []] No [X]

	o 15.1 is yes, indicate the American Bankers Association (ABA) er of Credit and describe the circumstances in which the Letter of				
1 American Bankers Association (ABA) Routing	2		3	4	
Number	Issuing or Confirming Bank Name		hat Can Trigger the Letter of Credit	Amour	
			<u>.</u>	<u></u>	
	BOARD OF	DIRECTORS	6		
thereof?	or sale of all investments of the reporting entity passed upon eith			Yes [X]	No
thereof?	ng entity keep a complete permanent record of the proceedings			Yes [X]	No
part of any of its	g entity an established procedure for disclosure to its board of d officers, directors, trustees or responsible employees that is in a	conflict or is likely t	o conflict with the official duties of such	Yes [X]	No
	FINΔ	NCIAL			
Has this stateme	ent been prepared using a basis of accounting other than Statuto	ory Accounting Prin	nciples (e.g., Generally Accepted	Yes []	No
	aned during the year (inclusive of Separate Accounts, exclusive		20.11 To directors or other officers	.\$	
			20.12 To stockholders not officers20.13 Trustees, supreme or grand		
			(Fraternal Only)	. \$	
Total amount of policy loans):	loans outstanding at the end of year (inclusive of Separate Acco	ounts, exclusive of	20.21 To directors or other officers	\$	
policy loans).			20.22 To stockholders not officers		
			20.23 Trustees, supreme or grand (Fraternal Only)	·	
Were any assets obligation being	reported in this statement subject to a contractual obligation to reported in the statement?	transfer to anothe	r party without the liability for such	Yes []	No
	amount thereof at December 31 of the current year:		21.21 Rented from others	.\$	
			21.22 Borrowed from others		
			21.23 Leased from others		
D #bi#-#	nent include payments for assessments as described in the Ann		21.24 Other	.\$	•••••
quaranty associa	ation assessments?	iuai Statement inst	ructions other than guaranty lund of	Yes []	No
If answer is yes:			.21 Amount paid as losses or risk adjustment		
		22	.22 Amount paid as expenses	.\$	
		22	.23 Other amounts paid	\$	
	ng entity report any amounts due from parent, subsidiaries or af	-			
	ny amounts receivable from parent included in the Page 2 amou			. \$	
90 days?	utilize third parties to pay agent commissions in which the amo			Yes []	No
ii tile response ti	o 24. Fis yes, identity the tillio-party that pays the agents and wi	nether they are a re	erateu party.		
		Is the			
		Third-Party Age			
	Name of Third-Party	(Yes/No)	,		
	,				
	INIVES	TMENT			

25.02	If no, give full and complete information, relating thereto							
25.03	For securities lending programs, provide a description of the pr whether collateral is carried on or off-balance sheet. (an alterna	ogram including value for collateral and amount of loaned securities, and ative is to reference Note 17 where this information is also provided)						
25.04		ount of collateral for conforming programs as outlined in the Risk-Based Capital						
25.05	For the reporting entity's securities lending program, report amount	ount of collateral for other programs.	\$					
25.06	Does your securities lending program require 102% (domestic securities) and 105% (foreign securities) from the counterparty at the outset of the contract?							
25.07	Does the reporting entity non-admit when the collateral receive	Does the reporting entity non-admit when the collateral received from the counterparty falls below 100%?						
25.08	Does the reporting entity or the reporting entity's securities lending agent utilize the Master Securities lending Agreement (MSLA) to conduct securities lending?]	N/A [[X]	
25.09	For the reporting entity's securities lending program state the a	mount of the following as of December 31 of the current year:						
	25.092 Total book/adjusted carrying value of r	assets reported on Schedule DL, Parts 1 and 2einvested collateral assets reported on Schedule DL, Parts 1 and 2orted on the liability page.	.\$					
26.1	control of the reporting entity or has the reporting entity sold or	entity owned at December 31 of the current year not exclusively under the transferred any assets subject to a put option contract that is currently in .03).	Yes	[X] N	0 []	
26.2	If yes, state the amount thereof at December 31 of the current	year: 26.21 Subject to repurchase agreements	\$ \$ \$ \$ \$ \$ \$ \$			4,341	1,226	
26.3	For category (26.26) provide the following:							
26.3	1 Nature of Restriction	2 Description		3 Amo	unt]	
	1 Nature of Restriction	Description		3 Amo	unt			
26.3 27.1 27.2	Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging program	Description	Yes	3 Amo	unt] N	o [X	X]	
27.1 27.2	Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging program If no, attach a description with this statement.	ed on Schedule DB?	Yes	3 Amo	unt] N	o [X	X]	
27.1 27.2	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement.	ed on Schedule DB?	Yes] No	3 Amo] N	o [X	 [X]	
27.1 27.2 INES 2	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement.	Description ed on Schedule DB?	Yes] No	3 Amo] N	o [X	 [X]	
27.1 27.2 INES 2 27.3	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable at If the response to 27.3 is YES, does the reporting entity utilize:	Description ed on Schedule DB?	Yes] No Yes Yes Yes Yes	3 Amo [[[[Unt N N N N N	o [X	X] X]	
27.1 27.2 INES 2 27.3	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable at If the response to 27.3 is YES, does the reporting entity utilize: 2 2 By responding YES to 27.41 regarding utilizing the special accordiousing: • The reporting entity has obtained explicit approval from • Hedging strategy subject to the special accounting pro • Actuarial certification has been obtained which indicat reserves and provides the impact of the hedging strate • Financial Officer Certification has been obtained which	Description and on Schedule DB?	Yes] No Yes Yes Yes Yes	3 Amo] N] N] N] N] N] N	X] o [X] o [X] o [X] o [X]	X] (()	
27.1 27.2 INES 2 27.3 27.4	Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable a If the response to 27.3 is YES, does the reporting entity utilize: 2 2 By responding YES to 27.41 regarding utilizing the special accordillowing: • The reporting entity has obtained explicit approval fror • Hedging strategy subject to the special accounting prof • Actuarial certification has been obtained which indicat reserves and provides the impact of the hedging strate • Financial Officer Certification has been obtained which Hedging Strategy within VM-21 and that the Clearly Dits actual day-to-day risk mitigation efforts. Were any preferred stocks or bonds owned as of December 36	Description ded on Schedule DB?	Yes Yes Yes Yes Yes	3 Amo [[[[unt	X] olo [X X] ol	X] X] X]	
27.1 27.2 INES 2 27.3 27.4	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable at If the response to 27.3 is YES, does the reporting entity utilize: 2 2 2 2 By responding YES to 27.41 regarding utilizing the special according of the reporting entity has obtained explicit approval fror Hedging strategy subject to the special accounting profunction of the hedging strate of the hedging stra	Description ded on Schedule DB?	Yes Yes Yes Yes Yes Yes Yes	3 Amo [[[[unt	X] ol X] ol X X] ol X X] ol X X] ol X X X X X X X X X X X X X X X X X X	X]	
27.1 27.2 INES 2 27.3 27.4 27.5	Nature of Restriction Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable at If the response to 27.3 is YES, does the reporting entity utilize: 2 2 2 By responding YES to 27.41 regarding utilizing the special acc following: • The reporting entity has obtained explicit approval fror • Hedging strategy subject to the special accounting profunction has been obtained which indicat reserves and provides the impact of the hedging strate • Financial Officer Certification has been obtained which Hedging Strategy within VM-21 and that the Clearly District actual day-to-day risk mitigation efforts. Were any preferred stocks or bonds owned as of December 31 issuer, convertible into equity? If yes, state the amount thereof at December 31 of the current Excluding items in Schedule E - Part 3 - Special Deposits, real offices, vaults or safety deposit boxes, were all stocks, bonds a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust company in a custodial agreement with a qualified bank or trust com	Description The dom Schedule DB?	Yes Yes Yes Yes Yes Yes Yes	3 <u>Amo</u>] N] N] N] N] N] N] N] N	X] ol X] ol X X] ol X X] ol X X] ol X X X X X X X X X X X X X X X X X X	X]	
27.1 27.2 INES 2 27.3 27.4 27.5	Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable at If the response to 27.3 is YES, does the reporting entity utilize: 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 2	Description Ted on Schedule DB?	Yes Yes Yes Yes Yes Yes Yes	3 <u>Amo</u>] N] N] N] N] N] N] N] N	X] ol X X] ol X X X X X X X X X X X X X X X X X X	X]	
27.1 27.2 INES 2 27.3 27.4 27.5	Nature of Restriction Does the reporting entity have any hedging transactions report If yes, has a comprehensive description of the hedging prograr If no, attach a description with this statement. 7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTIT Does the reporting entity utilize derivatives to hedge variable a If the response to 27.3 is YES, does the reporting entity utilize: 2 2 2 By responding YES to 27.41 regarding utilizing the special accordilowing: • The reporting entity has obtained explicit approval fror • Hedging strategy subject to the special accounting prof. • Actuarial certification has been obtained which indicat reserves and provides the impact of the hedging strate • Financial Officer Certification has been obtained which Hedging Strategy within VM-21 and that the Clearly Drits actual day-to-day risk mitigation efforts. Were any preferred stocks or bonds owned as of December 31 issuer, convertible into equity? If yes, state the amount thereof at December 31 of the current Excluding items in Schedule E - Part 3 - Special Deposits, real offices, vaults or safety deposit boxes, were all stocks, bonds a custodial agreement with a qualified bank or trust company in a Outsourcing of Critical Functions, Custodial or Safekeeping Ag For agreements that comply with the requirements of the NAIC	Description and on Schedule DB?	Yes Yes Yes Yes Yes Yes	E [[[X]] N] N] N] N] N	X] ol X X X X X X X X X X X X X X X X X X	X]	

GENERAL INTERROGATORIES

For all agreements that do not comply with the requirements of the NAIC Financial Condition Examiners Handbook, provide the name, location and a complete explanation:

Name(s)		Location(s)		Complete Explanation(s)			
	Have there been any changes, including name c If yes, give full and complete information relating	. ,	11 during the current yea	ar?	Yes [] No [X]	
	1 Old Custodian	2 New Custodian	3 Date of Change	4 Reason			

29.05 Investment management – Identify all investment advisors, investment managers, broker/dealers, including individuals that have the authority to make investment decisions on behalf of the reporting entity. For assets that are managed internally by employees of the reporting entity, note as such. ["...that have access to the investment accounts"; "...handle securities"]

1	2
Name of Firm or Individual	Affiliation
Barings LLC	A

29.0597 For those firms/individuals listed in the table for Question 29.05, do any firms/individuals unaffiliated with the reporting entity (i.e.			
designated with a "U") manage more than 10% of the reporting entity's invested assets?	Yes [] No	[X]

29.06 For those firms or individuals listed in the table for 29.05 with an affiliation code of "A" (affiliated) or "U" (unaffiliated), provide the information for the table below.

1	2	3	4	5
				Investment
				Management
Central Registration				Agreement
Depository Number	Name of Firm or Individual	Legal Entity Identifier (LEI)	Registered With	(IMA) Filed
106006	Barings LLC	549300G36F1EZS4MQM37	SEC	DS
	*			

30.1	Does the reporting entity have any diversified mutual funds reported in Schedule D, Part 2 (diversified according to the Securities and					
	Exchange Commission (SEC) in the Investment Company Act of 1940 [Section 5(b)(1)])?	Yes []	No	[X]

30.2 If yes, complete the following schedule:

29.03

29.04

1	2	3
		Book/Adjusted
CUSIP#	Name of Mutual Fund	Carrying Value
30.2999 - Total		

30.3 For each mutual fund listed in the table above, complete the following schedule:

1	2	3	4
'		Amount of Mutual	7
		Fund's Book/Adjusted	
		Carrying Value	
	Name of Significant Holding of the	Attributable to the	Date of
Name of Mutual Fund (from above table)	Mutual Fund	Holding	Valuation

GENERAL INTERROGATORIES

31. Provide the following information for all short-term and long-term bonds and all preferred stocks. Do not substitute amortized value or statement value for fair value.

	1	2	3
			Excess of Statement
			over Fair Value (-), or
	Statement (Admitted)		Fair Value over
	Value	Fair Value	Statement (+)
31.1 Bonds	316,253,125	305,679,021	(10,574,104)
31.2 Preferred stocks			
31.3 Totals	316,253,125	305,679,021	(10,574,104)

 a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. Has the reporting entity self-designated PLGI securities? 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designar FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria?			
22 If the answer to 32.1 is yes, does the reporting entity have a copy of the broker's or custodian's pricing policy (hard copy or electronic copy all brokers or custodians used as a pricing source? 32.3 If the answer to 32.2 is no, describe the reporting entity's process for determining a reliable pricing source for purposes of disclosure of fair value for Schedule D: 33.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed?	ng e ash		
 all brokers or custodians used as a pricing source? 32.3 If the answer to 3.2 is no, describe the reporting entity's process for determining a reliable pricing source for purposes of disclosure of fair value for Schedule D: 33.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed? 33.2 If no, list exceptions: 34. By self-designating 5GI securities, the reporting entity is certifying the following elements of each self-designated 5GI security: a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available. b. Issuer or obligor is current on all contracted interest and principal payments. c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal. Has the reporting entity self-designated 5GI securities? 35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designate FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation	Yes	[X]	No []
 value for Schedule D: 33.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed? 33.2 If no, list exceptions: 34. By self-designating 5GI securities, the reporting entity is certifying the following elements of each self-designated 5GI security: a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available. b. Issuer or obligor is current on all contracted interest and principal payments. c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal. 35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. Has the reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the pub		[X]	No []
 33.2 If no, list exceptions: 34. By self-designating 5GI securities, the reporting entity is certifying the following elements of each self-designated 5GI security: a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available. b. Issuer or obligor is current on all contracted interest and principal payments. c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal. Has the reporting entity self-designated 5GI securities? 35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designate FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance			
 a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available. b. Issuer or obligor is current on all contracted interest and principal payments. c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal. Has the reporting entity self-designated 5GI securities? 35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. Has the reporting entity self-designated PLGI securities? 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designa FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds		[X]	No []
 35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. Has the reporting entity self-designated PLGI securities? 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designar FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? 37. By rolling/renewing short-term or cash equivalent investments with continued reporting on Schedule DA, Part 1 or Schedule E Part 2 (identified through a code (%) in those investment schedules), the reporting entity is certifying to the following: a. The investment is a liquid asset that can be terminated by the reporting entity on the current maturity date. <li< td=""><td>V</td><td>, ,</td><td>N T V I</td></li<>	V	, ,	N T V I
 a. The security was purchased prior to January 1, 2018. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is show on a current private letter rating held by the insurer and available for examination by state insurance regulators. d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO. Has the reporting entity self-designated PLGI securities? 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designa FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? 37. By rolling/renewing short-term or cash equivalent investments with continued reporting on Schedule DA, Part 1 or Schedule E Part 2 (identified through a code (%) in those investment schedules), the reporting entity is certifying to the following: a. The investment is a liquid asset that can be terminated by the reporting entity is certifying to the following: a. The investment is with a nonrelated party or nonaffiliate, then it reflects an arms-length transaction with renewal completed at the <td>····· Yes</td><td>[]</td><td>No [X]</td>	····· Yes	[]	No [X]
 36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designar FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CI in its legal capacity as an NRSRO. f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria?	⁄n		
FE fund: a. The shares were purchased prior to January 1, 2019. b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security. c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior January 1, 2019. d. The fund only or predominantly holds bonds in its portfolio. e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC Cli in its legal capacity as an NRSRO. f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed. Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria?	Yes	[]	No [X]
(identified through a code (%) in those investment schedules), the reporting entity is certifying to the following: a. The investment is a liquid asset that can be terminated by the reporting entity on the current maturity date. b. If the investment is with a nonrelated party or nonaffiliate, then it reflects an arms-length transaction with renewal completed at the	r to RP	[]	No [X]
 c. If the investment is with a related party or affiliate, then the reporting entity has completed robust re-underwriting of the transaction for which documentation is available for regulator review. d. Short-term and cash equivalent investments that have been renewed/rolled from the prior period that do not meet the criteria in 37.a 37.c are reported as long-term investments. Has the reporting entity rolled/renewed short-term or cash equivalent investments in accordance with these criteria?	i -	do [X]	N/A []

38.1	Does the reporting entity directly hold cryptocurrencies?			Yes [] N	o [X]
38.2	If the response to 38.1 is yes, on what schedule are they reported?					
39.1	Does the reporting entity directly or indirectly accept cryptocurrencies as payments for pren	niums on policies?		Yes [] N	o [X]
39.2] N	
	•	to U.S. dollars		Yes [] N	0[]
39.3	If the response to 38.1 or 39.1 is yes, list all cryptocurrencies accepted for payments of pre					
	1 Name of Cryptocurrency	2 Immediately Converted to USD, Directly Held, or Both	3 Accepted for Payment of Premiums			
	77					
	OTHER					
40.1	Amount of payments to trade associations, service organizations and statistical or rating but	reaus, if any?		\$		13,651
40.2	List the name of the organization and the amount paid if any such payment represented 25 service organizations and statistical or rating bureaus during the period covered by this sta		ts to trade association	ns,		
	1 Name		2 et Roid			
	American Council of Life Insurers (ACLI) US Chamber of Commerce		4,522 3,220			
41.1	Amount of payments for legal expenses, if any?	•	<u></u>	\$		17.615
41.2	List the name of the firm and the amount paid if any such payment represented 25% or moduring the period covered by this statement.	re of the total payments for leເ	gal expenses			
	1 Name	Amou	2 of Paid			
	Jones Day		4,633			
42.1	Amount of payments for expenditures in connection with matters before legislative bodies,	officers or departments of gov	ernment, if any?	\$		5,841
42.2	List the name of the firm and the amount paid if any such payment represented 25% or mo connection with matters before legislative bodies, officers, or departments of government of					
	1 Name		2 nt Paid			
	Name		ıı r alu			

GENERAL INTERROGATORIES

PART 2 - LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES INTERROGATORIES

If ye	es, indicate premium earned on U.S. business only			\$	
	at portion of Item (1.2) is not reported on the Medicare Supplement Insurance Experi I Reason for excluding:			\$	
Indi	cate amount of earned premium attributable to Canadian and/or Other Alien not inclu	ded in Item (1.2) above		\$	
Indi	cate total incurred claims on all Medicare Supplement insurance.			\$	
Indi	vidual policies:	Most current the	ee vears:		
	,		ium earned	\$	
			red claims		
			covered lives		
		All years prior to	most current three years		
			ium earned		
		1.65 Total incur	red claims	\$	
		1.66 Number of	covered lives		
Cr.	un policies.	Mest sums of the			
GIC	up policies:	Most current the	=	C	
			ium earned		
			red claims		
		1./3 Number of	covered lives		
		All years prior to	most current three years		
			iium earned	¢	
			red claims		
			covered lives		
		1.70 Number of	COVERCE IIVES		
Hea	alth Test:				
		1 Current Year	2 Prior Year		
2.1	Premium Numerator				
2.2	Premium Denominator				
2.3	Premium Ratio (2.1/2.2)				
2.3	Reserve Numerator				
2.5	Reserve Denominator				
2.6	Reserve Ratio (2.4/2.5)				
Doe	es this reporting entity have Separate Accounts?			Yes [X] N	0[]
If ye	es, has a Separate Accounts Statement been filed with this Department?		Yes [X] No []	N/A [
Wh	at portion of capital and surplus funds of the reporting entity covered by assets in the ributable from the Separate Accounts to the general account for use by the general a	Separate Accounts stater ccount?	nent, is not currently	\$	284,8
	te the authority under which Separate Accounts are maintained:				
Cor	necticut General Statutes, Section 38a-433 and 38a-459				
Wa	s any of the reporting entity's Separate Accounts business reinsured as of Decembe	31?		Yes [X] N	0[]
Has	the reporting entity assumed by reinsurance any Separate Accounts business as of	December 31?		Yes [] N	o [X]
Acc	e reporting entity has assumed Separate Accounts business, how much, if any, reins ounts reserve expense allowances is included as a negative amount in the liability fo	r "Transfers to Separate A	ccounts due or accrued		
clai	reporting entities having sold annuities to another insurer where the insurer purchasmant (payee) as the result of the purchase of an annuity from the reporting entity only	r.	•		
	ount of loss reserves established by these annuities during the current year:the name and location of the insurance company purchasing the annuities and the s				
	1		2		
	·		Statement Va	Date	
1			of Annuitie		
- 1	P&C Insurance Company And Location		(i.e., Present V	aiue) I	

GENERAL INTERROGATORIES

PART 2 - LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES INTERROGATORIES

5.1	Do you act as a custodian for health savings accour	nts?					Yes [] No	[X]	
5.2	If yes, please provide the amount of custodial funds	held as of the re	eporting date				\$			
5.3	Do you act as an administrator for health savings ac	counts?					Yes [] No	[X]	
5.4	If yes, please provide the balance of funds administration	ered as of the re	porting date				\$			
6.1 6.2	Are any of the captive affiliates reported on Schedul If the answer to 6.1 is yes, please provide the follow		orized reinsurers?			Yes [] No [X] N	/A [l
	1	2	3	4	Assets	Supporting Reserv	e Credit		l	
	'	NAIC	3	7	5	6	7			
	Company Name	Company Code	Domiciliary Jurisdiction	Reserve Credit	Letters of Credit	Trust Agreements	Other			
7.	Provide the following for individual ordinary life insurceded):	7.1 Direct Pre	emium Written		ar (prior to reinsur	ance assumed or	\$	25,6		
	Tour (both of the		nary Life Insurance							
	Term (whether full un Whole Life (whether									
	Variable Life (with or			,	1. ,					
	Universal Life (with o Variable Universal Life			antee)						
	Valiable Offivereal En	o (with or withou	at occordary garan	31100)						
8.	Is the reporting entity licensed or chartered, register	ed, qualified, eliç	gible or writing bus	ness in at least tw	o states?		Yes [X] No	[]	
8.1	If no, does the reporting entity assume reinsurance the reporting entity?						Yes [] No	[]	
ife. Ac	cident and Health Companies Only:									
9.1	Are personnel or facilities of this reporting entity use by this reporting entity (except for activities such as	administration of	f jointly underwritte	n group contracts	and joint mortality	or morbidity				
	studies)?						Yes [X] No	[]	
9.2	Net reimbursement of such expenses between repo	rting entities:						0.4	000 740	
10.1	Does the reporting entity write any guaranteed interest	est contracts?					Yes [] No	[X]	
10.2	If yes, what amount pertaining to these lines is inclu	ded in:								
11.	For stock reporting entities only:			10.22	Page 4, Line 1		\$			
11.1	Total amount paid in by stockholders as surplus fun	ds since organiz	ation of the reporti	ng entity:			\$			
12.	Total dividends paid stockholders since organization	of the reporting	a entity:							
12.	Total dividends paid stockholders since organization	r or the reporting	g criuty.	12 11	Cash		\$			
							•			
13.1	Does the reporting entity reinsure any Workers' Con Reinsurance (including retrocessional reinsurance) benefits of the occupational illness and accident exp written as workers' compensation insurance.	assumed by life	and health insurers	s of medical, wage	loss and death		Yes [] No	[X]	
13.2	If yes, has the reporting entity completed the Worke	rs' Compensatio	n Carve-Out Supp	lement to the Anni	ual Statement?		Yes [] No	[]	
13.3	If 13.1 is yes, the amounts of earned premiums and	claims incurred		re:						
			1 Reinsurai	nce Reir	2 nsurance	3 Net				
			Assume	ed C	Ceded	Retained				
	13.31 Earned premium									
	13.32 Paid claims									
	13.34 Claim liability and reserve (beginning of year)									
	13.35 Incurred claims									

GENERAL INTERROGATORIES

PART 2 - LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES INTERROGATORIES

13.4	13.34 for Column (1) are:	unis reported in Li	nes 13.31 and					
	1 Attachment Earned Point Premium		2 Liability Reserve					
	13.41 <\$25,000							
	13.43 \$100,000 - 249,999							
	13.44 \$250,000 - 999,999							
13.5	What portion of earned premium reported in 13.31, Column 1 was assumed from pools?			.\$				
ratern	nal Benefit Societies Only:							
14. 15.	Is the reporting entity organized and conducted on the lodge system, with ritualistic form of work and representation of the subordinate branches required to be held?	_		Yes []	No []	
16.	How are the subordinate branches represented in the supreme or governing body?							
17.								
18.1								
18.2								
18.3	When and where will the next regular or special meeting of the governing body be held?							
18.4								
18.5	How many of the same were delegates of the subordinate branches?							
19.	How are the expenses of the governing body defrayed?							
20.	When and by whom are the officers and directors elected?							
21.	What are the qualifications for membership?							
22.								
23.	What is the minimum and maximum insurance that may be issued on any one life?							
24.	Is a medical examination required before issuing a fit of ification to applicate ?			Yes [1	No [1	
25.		neh by ballot and		Yes [-		j	
26.1		<u></u>	Yes [] No []	N/A	[]
26.2	,,			Yes []	No []	
27.	What proportion of first and subsequent year's payments may be used for management expenses? 27.11 First Year							0/
	27.12 Subsequent Years							%
28.1				Yes [
28.2	If so, what amount and for what purpose?							
29.1	Does the reporting entity pay an old age disability benefit?			Yes []	No []	
	If yes, at what age does the benefit commence?					N F	,	
30.1 30.2	If yes, when?			Yes [J	No [J	
31.	Have you filed with this Department all forms of benefit certificates issued, a copy of the constitution and all of the inforce at the present time?	he laws, rules and	l regulations	Yes [1	No ſ	1	
32.1	·	oremium-paying ce	ertificates on	Yes [
32.2	If so, was an additional reserve included in Exhibit 5?		Yes [] No []	N/A	[]
32.3	If yes, explain							
33.1	1 0 1 1 1 1 1 1 1			Yes []	No []	
33.2	If yes, was there any contract agreement, or understanding, written or oral, expressed or implied, by means of v director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fe							
	emolument, or compensation of any nature whatsoever in connection with, on an account of such reinsurance,							
0.4	absorption, or transfer of membership or funds?] No []	N/A	[]
34.	Has any present or former officer, director, trustee, incorporator, or any other persons, or any firm, corporation, claims of any nature whatsoever against this reporting entity, which is not included in the liabilities on Page 3 of			Yes [1	No ſ	1	
35.1				Yes [-	No []	
35.2					•		•	

FIVE-YEAR HISTORICAL DATA

Show amounts in whole dollars only, no cents; show percentages to one decimal place, i.e. 17.6.

		1	ounts of life insurar	3	4	5
	Life Insurance in Force	2023	2022	2021	2020	2019
	(Exhibit of Life Insurance)					
	Ordinary - whole life and endowment (Line 34, Col.					
0	4)	8,151,559	8,293,657	8,785,414	8,935,990	9,097,214
2.	Ordinary - term (Line 21, Col. 4, less Line 34, Col. 4)	3.159	2.668	3 . 135	2.579	2.909
	Credit life (Line 21, Col. 6)					
4.	Group, excluding FEGLI/SGLI (Line 21, Col. 9 less	0 100 000	0.004.070	0.040.005	0.000.407	0 000 751
E	Lines 43 & 44, Col. 4)					
	FEGLI/SGLI (Lines 43 & 44, Col. 4)					
	Total (Line 21, Col. 10)	10,335,354	10,497,695	11,001,554	11,169,036	11,333,874
7.1	Total in force for which VM-20					
	deterministic/stochastic reserves are calculated					
	New Business Issued (Exhibit of Life Insurance)					
	Ordinany whole life and endowment (Line 34, Col.					
•	2)					
	Ordinary - term (Line 2, Col. 4, less Line 34, Col. 2) Credit life (Line 2, Col. 6)					
	Group (Line 2, Col. 9)					
	Industrial (Line 2, Col. 2)					
			2,785	1,311	2,034	620
	Premium Income - Lines of Business					
14.	(Exhibit 1 - Part 1) Individual life (Line 20.4, Col. 2)	(8 5/2 271)	071 315	11 397 237	(4 358 108)	2 020 422
	Group life (Line 20.4, Col. 3)					
16.	Individual annuities (Line 20.4, Col. 4)	4,800	4,800	16,000	19,952	21,800
17.	Group annuities (Line 20.4, Col. 5)					
18.	Accident & Health (Line 20.4, Col. 6)					
19. 20.	Other lines of business (Line 20.4, Col. 8)	(0 527 471)	076 115	11 402 227	(4 220 246)	2 042 222
	Balance Sheet (Pages 2 & 3)	(0,337,471)	970, 113	11,400,207	(4,330,240)	2,542,222
	Total admitted assets excluding Separate Accounts					
	business (Page 2, Line 26, Col. 3)	437, 131, 691	452,983,795	488,015,749	493,287,942	499,531,297
22.	Total liabilities excluding Separate Accounts business (Page 3, Line 26)	204 407 701	200 840 820	222 586 158	218 778 416	206 076 075
23.	Aggregate life reserves (Page 3, Line 1)	141.691.572	137.777.901	143.285.875	143.124.981	145.926.548
	Excess VM-20 deterministic/stochastic reserve over					
	NPR related to Line 7.1					
24 25.	Aggregate A & H reserves (Page 3, Line 2)Deposit-type contract funds (Page 3, Line 3)	11 000 504	12 617 802		13,771,784	
26.	Asset valuation reserve (Page 3, Line 24.01)	6.462.012	6.881.096	6.056.250		
27.	Capital (Page 3, Lines 29 and 30)	2,500,200	2,500,200	2,500,200	2,500,200	2,500,200
28.	Surplus (Page 3, Line 37)	230,223,700	249,642,774	262,929,391	272,009,326	290,954,122
00	Cash Flow (Page 5)	00 775 100	14 010 000	17 015 050	0 474 505	7 400 000
	Net Cash from Operations (Line 11)Risk-Based Capital Analysis	23,775, 192	14,812,302	17,215,650	8, 1/1,535	
	Total adjusted capital	239 , 185 , 912	259,024,070	271,485,841	281,702,415	299,739,518
	Authorized control level risk - based capital			2,975,241		
	Percentage Distribution of Cash, Cash					
	Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3)					
	x 100.0					
32.	Bonds (Line 1)	60.3	50.6			
33.	Stocks (Lines 2.1 and 2.2)	0.0	0.0			
	Mortgage loans on real estate(Lines 3.1 and 3.2) Real estate (Lines 4.1, 4.2 and 4.3)				0.5	0.5
	Cash, cash equivalents and short-term investments					
	(Line 5)					
	Contract loans (Line 6)					20.8
38. 39.	Derivatives (Page 2, Line 7) Other invested assets (Line 8)	0.0	0.0			
	Receivables for securities (Line 9)					
	Securities lending reinvested collateral assets (Line					
	,					
	Aggregate write-ins for invested assets (Line 11)					
43.	Cash, cash equivalents and invested assets (Line 12)	100.0	100.0	100.0	100.0	100.0
	Investments in Parent, Subsidiaries and					
4.4	Affiliates					
44.	Affiliated bonds (Schedule D Summary, Line 12, Col. 1)	995 172	993 621	992 , 122		
45.	Affiliated preferred stocks (Schedule D Summary,					
46.	Affiliated common stocks (Schedule D Summary Line 24, Col. 1),					
47.	Affiliated short-term investments (subtotal included					
	in Schedule DA Verification, Col. 5, Line 10)					
	3.3	······ ····				
	All other affiliated Total of above Lines 44 to 49	005 170	993,621	000 100		
	Total Investment in Parent included in Lines 44 to	aao, 1/2	ಶಶು,ರ೭।	332, 122		
J 01.	49 above	1	1			

FIVE-YEAR HISTORICAL DATA

(Continued)

		•	ontinuea)	_		_
		1 2023	2 2022	3 2021	4 2020	5 2019
	Total Nonadmitted and Admitted Assets			2021	2020	2010
52.	Total nonadmitted assets (Page 2, Line 28, Col. 2)			2,219,132		2,321,196
53.	Total admitted assets (Page 2, Line 28, Col. 3)	5, 109, 592, 566	5,022,867,608	5,462,847,319	5,352,119,790	5, 117, 785, 433
54.	Investment Data Net investment income (Exhibit of Net Investment					
54.	Income)	19,105,899	15,112,282	12,821,868	15, 179, 564	18,286,919
55.	Realized capital gains (losses) (Page 4, Line 34, Column 1)					
56.	Column 1) Unrealized capital gains (losses) (Page 4, Line 38,	(701,549)	(14, /80)	(51,2/0)	(133,50/)	(45,946)
50.	Column 1)	(311,788)	191,410	19,696	(140, 180)	20,039
57.	Column 1) Total of above Lines 54, 55 and 56		15,288,912	12,790,294	14,905,876	18,261,012
50	Benefits and Reserve Increases (Page 6)					
58.	Total contract/certificate benefits - life (Lines 10, 11, 12, 13, 14 and 15, Col. 1 minus Lines 10, 11, 12, 13, 14					
	and 15, Cols. 6, 7 and 8)	58,394,821	63,283,738	82,220,794	44,959,382	48,784,770
59.	Total contract/certificate benefits - A & H (Lines 13 &					
60.	14, Col. 6)					
00.	annuities (Line 19, Col. 2)	3,400,562	(5,391,742)	(101,502)	(2,283,459)	2,559,499
61.	Increase in A & H reserves (Line 19, Col. 6)					
62.	Dividends to policyholders and refunds to members (Line 30, Col. 1)					
	Operating Percentages					
63.	Insurance expense percent (Page 6, Col. 1, Lines 21,					
	22 & 23, less Line 6)/(Page 6, Col. 1, Line 1 plus					
64.	Exhibit 7, Col. 2, Line 2) x 100.0	5.6	(191.3)	(5.8)	(8.4)	63.6
04.	because Oct 4 Lines 44 0 45) /4/0 /5 while the 61 ife					
	Insurance, Col. 4, Lines 1 & 21)] x 100.0	1.9	1.8	1.9	2.0	
65.	A & H loss percent (Schedule H, Part 1, Lines 5 and 6, Col. 2)					
66.	A & H cost containment percent (Schedule H. Pt. 1					
	Line 4, Col. 2)					
67.	A & H expense percent excluding cost containment expenses (Schedule H, Pt. 1, Line 10, Col. 2)					
	A & H Claim Reserve Adequacy			•••••		
68.	Incomed leaves on union control plains.					
-00	group health (Sch. H, Part 3, Line 3.1 Col. 3)			XXX	XXX	XXX
69.	Prior years' claim liability and reserve - comprehensive group health (Sch. H, Part 3, Line 3.2 Col. 3)			XXX	XXX	XXX
70.	Incurred losses on prior years' claims-health other than					
	comprehensive group health (Sch. H, Part 3, Line 3.1			1001		1001
71.	Col. 1 less Col. 3) Prior years' claim liability and reserve-health other than			XXX	XXX	XXX
/	comprehensive group health (Sch. H, Part 3, Line 3.2					
	Col. 1 less Col. 3)			XXX	XXX	XXX
	Net Gains From Operations After Dividends to Policyholders, Refunds to Members, Federal					
	Income Taxes and Before Realized Capital Gains					
	or (Losses) by Lines of Business (Page 6.x, Line					
72.	33) Individual industrial life (Page 6.1, Col. 2)					
73.	Individual whole life (Page 6.1, Col. 3)					
74.	Individual term life (Page 6.1, Col. 4)					
75.	Individual indexed life (Page 6.1, Col. 5)					
76. 77.	Individual universal life (Page 6.1, Col. 6)					
17.	(Page 6.1, Col. 7)					
78.	Individual variable life (Page 6.1, Col. 8)	77,813	(209,547)			
79.	Individual variable universal life (Page 6.1, Col. 9)					
80. 81.	Individual credit life (Page 6.1, Col. 10)					
82.	Individual YRT mortality risk only (Page 6.1, Col. 12)					
83.	Group whole life (Page 6.2, Col. 2)					
84.	Group term life (Page 6.2, Col. 3)					
85. 86.	Group universal life (Page 6.2, Col. 4)					
87.	Group variable life (rage 0.2, Col. 3)	(3.894.623)	239.335			
88.	Group credit life (Page 6.2, Col. 7)					
89.	Group other life (Page 6.2, Col. 8)					
90. 91.	Group YRT mortality risk only (Page 6.2, Col. 9)					
91.	Individual deferred indexed annuities (Page 6.3, Col. 2)					
93.	Individual deferred variable annuities with guarantees					
	(Page 6.3, Col. 4)	(143,978)	436,723			
94.	Individual deferred variable annuities without guarantees (Page 6.3, Col. 5)					
95.	Individual life contingent payout (immediate and					
	annuitization) (Page 6.3, Col. 6)	(199,021)	524,791			
96.	Individual other annuities (Page 6.3, Col. 7)					
97. 98.	Group deferred fixed annuities (Page 6.4, Col. 2) Group deferred indexed annuities (Page 6.4, Col. 3)					
99.	Group deferred variable annuities with guarantees					
465	(Page 6.4, Col. 4)					
100.	Group deferred variable annuities without guarantees (Page 6.4, Col. 5)					
101.	Group life contingent payout (immediate and					
	annuitization) (Page 6.4, Col. 6)					
102.	Group other annuities (Page 6.4, Col. 7)					
103. 104.	A & H-comprehensive individual (Page 6.5, Col. 2) A & H-comprehensive group (Page 6.5, Col. 3)					
105.						
106.	A & H-vision only (Page 6.5, Col. 5)					
107.	A & H-dental only (Page 6.5, Col. 6)					
108.	A & H-Federal employees health benefits plan (Page 6.5, Col. 7)					
109.	A & H-Title XVIII Medicare (Page 6.5, Col. 8)					
110.	A & H-Title XIX Medicaid (Page 6.5, Col. 9)					
111.	A & H-credit (Page 6.5, Col. 10)					
112. 113.	A & H-disability income (Page 6.5, Col. 11)					
114.	A & H-other (Page 6.5, Col. 13)					
115.	Aggregate of all other lines of business (Page 6, Col. 8)					
116.	Fraternal (Page 6, Col. 7)					
117.	Total (Page 6, Col. 1) If a party to a merger, have the two most recent years	7,866,568	14,884,739	p	.1	
NUTE:	it a narty to a morger, have the two most recent years	Of this exhibit been rest	rated due to a merger in	compliance with the dis	CIOCUTO	



LIFE INSURANCE (STATE PAGE)(b)

	NAIC Group Code 0435 BUSINESS I	N THE STATE O	F Grand Tota			- (01)(121	,	DUF	RING THE YEAR	2023	NAIC Com	pany Code 70	0416
		1	2		Dividends to	o Policyholders/Refund	s to Members			(laims and Benefits Pa	iid	
		Premiums and Annuities	Other	3 Paid in Cash or	4 Applied to Pay Renewal	5 Applied to Provide Paid-Up Additions or Shorten the Endowment or Premium-Paying	6	7 Total	8 Death and	9 Matured	10 Surrender Values and Withdrawals	11 All Other	Total (Sum Columns 8
	Line of Business	Considerations	Considerations	Left on Deposit	Premiums	Period	Other	(Col. 3+4+5+6)	Annuity Benefits	Endowments	for Life Contracts	Benefits	through 11)
Individu													
	Industrial												
2.	Whole												
3.	Term												
4.	Indexed												
5. 6.	Universal Universal with secondary quarantees												
7	Variable	928.067								•••••	290.373	6,328	410.048
8.	Variable universal	24 .400 .824							92.465.121		33.455.283		
9.	Credit												
10.	Other(f)												
11.	Total Individual Life	25,328,891							92,578,468		33,745,655	404,475	126,728,598
Group			<u> </u>]								
12.	Whole												
13.	Term												
14.	Universal												
15. 16.	Variable								15.321.170				15.321.170
17.	Credit								13,321,170				13,321,170
18.	Other(f)												
	Total Group Life								15.321.170				15.321.170
	ual Annuities								10,021,110				10,021,110
	Fixed												
21.	Indexed												
22.	Variable with guarantees								502,292		2,810,073		3,312,365
	Variable without guarantees												
	Life contingent payout												
25.	Other(f)	4.800							502.292		0.040.070		0.040.000
26.	Total Individual Annuities	4,800							502,292		2,810,073		3,312,365
	Annuities Fixed												
28.	Indexed												
29.	Variable with guarantees												
	Variable without guarantees												
31.	Life contingent payout												
	Other(f)												
	Total Group Annuities												
	nt and Health								1001	1001	1001		
34.	Comprehensive individual(d)				·····				XXX	XXX	XXX		
35. 36.	Comprehensive group				·····				XXX	XXX	XXXXXX		
36. 37.	Vision only(d)				·····				XXX	XXX	XXXXXX		
38.	Dental only(d)								XXX	XXX	XXX		
39.	Federal Employees Health Benefits Plan(d)								XXX	XXX	XXX		
40.	Title XVIII Medicare(d)								XXX	XXX	XXX		
	Title XIX Medicaid(d)								XXX	XXX	XXX		
42.	Credit A&H								XXX	XXX	XXX		
43.	Disability income(d)								XXX	XXX	XXX		
44.	Long-term care(d)								XXX	XXX	XXX		
45.	Other health(d)								XXX	XXX	XXX		
46.	Total Accident and Health	05 000 00: /)							XXX	XXX	XXX	40:	445.000.00
47.	Total	25,333,691 (c)			1				108,401,930		36,555,728	404,475	145, 362, 133

Individual Life - Other includes the following amounts related to Separate Account policies:
 Group Life - Other includes the following amounts related to Separate Account policies:

Individual Annuities - Other includes the following amounts related to Separate Account policies:
 Group Annuities - Other includes the following amounts related to Separate Account policies:

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

LIFE INSURANCE (STATE PAGE) (Continued)(b)

	NAIC Group Code 0435 E	BUSINESS IN THE S	STATE OF	Grand Tota Direct		efits, Matured Endow	ments Incu	rred and Annuity Be	enefits		DURING TH	IE YEAR	2023		AIC Company Code olicy Exhibit		1416
		13			•	Claims Settled Dur	ring Curren	t Year	_		22		ed During Year		nges to In Force (Net)	Cı	ce December 31 rrent Year (b)
			-	Γotals Paid	Reduction	on by Compromise	Am	ount Rejected		Settled During urrent Year		23	24	25	26	27	28
		Incurred During	14 Number of Pols/	15	16 Number of Pols/	17	18 Number of Pols/	19	20 Number of Pols/	21	Unpaid December 31.	Number of Pols/		Number of Pols/		Number of Pols/	
	Line of Business	Current Year	Certs	Amount	Certs	Amount	Certs	Amount	Certs	Amount	Current Year	Certs	Amount	Certs	Amount	Certs	Amount
	ual Life Industrial																
	Whole																
	Term																
	Indexed																
	Universal with secondary quarantees																
	Variable		1						1	113,347	39,041						
	Variable universal		253	92,465,121					253	92,465,121	14,610,134						
	Credit																
	Other(f) Total Individual Life	87.979.894	254	92.578.468					254	92.578.468	14,649,175			24,571 24,571	8, 154, 718, 104 8, 154, 718, 104		8, 154, 7 8, 154, 7
roup L		87,979,894	204	92,378,408					204	92,378,408	14,049,175			24,3/1	8, 134, / 18, 104	24,5/1	8, 104, 7
	Whole																
	Term																
	Universal																
	Variable			45.004.470							40.057.454						
	Variable universal Credit	22,782,729	24	15,321,170				•••••	24	15, 321, 170	10,257,454						
	Other (f)													5	2,180,636,341	5	2, 180, 6
	Total Group Life	22,782,729	24	15,321,170					24	15,321,170	10,257,454			5	2,180,636,341	5	2,180,6
	ual Annuities																
	Fixed																
	Indexed																
	Variable with guarantees																
	Life contingent payout																
25.	Other(f)												495	44,783,579	495	44,7
	Total Individual Annuities	502,292												495	44,783,579	495	44,7
roup A	Annuities																
	FixedIndexed																
	Variable with quarantees																
	Variable without guarantees																
31.	Life contingent payout																
	Other(f)															
	Total Group Annuities		1														
	nt and Health Comprehensive individual(c)xxx	xxx	xxx	xxx	xxx	xxx	XXX	xxx	XXX	xxx						
	Comprehensive group(d		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX						
36.	Medicare Supplement(0	í)XXX	xxx	XXX	XXX	XXX	XXX	XXX	xxx	XXX	XXX						
	Vision only(d		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	ļ		.	ļ		
38. 39.	Dental only		XXX	XXXXXX	XXX	XXXXXX	XXX	XXXXXX	XXX	XXX	XXXXXX			·	·····		
	Title XVIII Medicare(c		XXX	XXX	XXX	XXXXXX	XXX	XXX	XXX	XXX	XXX				·····		
	Title XIX Medicaid(d		XXX	XXX	XXX	XXX	XXX	XXX	xxx	XXX	XXX						
42.	Credit A&H	XXX	xxx	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX						
	Disability income(d		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX			.			
	Long-term care		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXXXXX						
	Total Accident and Health	XXX	XXX	XXX	XXX		XXX	XXX	XXX	XXX	XXX						
47.	TOTAL	111,264,915	278	107,899,638					278	107.899.638	24.906.628			25,071	10,380,138,024	25,071	10,380,1
nclude	es Group Credit Life Insurance Loans less than or equal to 60	months at issue, prior	year \$, cu	rrent year \$		Loans g	reater than 60 mont	hs at issue Bl	JT NOT GREATER	THAN 120 MONTHS p	orior year \$. current ve	ear \$. ,,
Corpor	rate Owned Life Insurance/BOLI: 1) Number of policies:	5.084 2) c	overing numl	per of lives:	8.071	3) face amount \$.	6.765	.412.309			- '			, , .	· •		
Depos	sit-Type Contract Considerations NOT included in Total Premi	ums and Annuities Cor	nsiderations:	Individual: \$		Group: \$		Total: \$									
or he	ealth business on indicated lines report: Number of persons in	sured under PPO mana	aged care pr	oducts	and	number of persons i	insured und	ler indemnity only p	roducts								
	ealth premiums written: amount of Medicare Title XVIII exempt		•														

 Column 1) \$
 Column 7) \$
 Column 12) \$

 Column 1) \$
 Column 7) \$
 Column 12) \$

Column 1) \$ Column 7) \$ Column 12) \$ Column 1) \$ Column 7) \$ Column 12) \$

EXHIBIT OF LIFE INSURANCE

(\$000 Omitted for Amounts of Life Insurance)

		Indu	ustrial	Ord	inary	Credit Life (Grou	p and Individual)		Group		10
		1	2	3	4	5	6	Numbe		9	
		Number of Policies	Amount of Insurance	Number of Policies	Amount of Insurance	Number of Individual Policies and Group Certificates	Amount of Insurance	7 Policies	8 Certificates	Amount of Insurance	Total Amount of Insurance
	In force end of prior year	Number of Folicies	Amount of mountee	25.639		Certificates	Amount of insurance	Policies	3.025	2.201.370	
	. ,			23,039	0,290,323					2,201,370	10,497,08
	9,00										
	Revived during year			4	598						59
	Increased during year (net)				94,279					2,061	96,3
	Subtotals, Lines 2 to 5			4	94,877					2,061	96,96
	Additions by dividends during year	XXX		XXX		XXX		XXX	XXX		
	Aggregate write-ins for increases										
9.	Totals (Lines 1 and 6 to 8)			25,643	8,391,201			5	3,025	2,203,431	10,594,60
	Deductions during year:										
10.	Death			227	80,017			XXX	33	22,795	102,8
11.	Maturity							XXX			
12.	Disability							XXX			
13.	Expiry			1	23						
	Surrender			580	107,980						107.98
				223	47.123						47.12
	Conversion				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			XXX	XXX	XXX	,
	Decreased (net)			41	1,340						1.3
	Reinsurance				1,040						
	Aggregate write-ins for decreases										
	-			1,072	236,483				33	22,795	259,27
	Totals (Lines 10 to 19)			24.571	8.154.718			E	2,992	2.,795	
21.	In force end of year (b) (Line 9 minus Line 20)			, -						2, 180, 636	
	Reinsurance ceded end of year			XXX	3,490,542	XXX		XXX	XXX	2, 180,636	5,671,17
	Line 21 minus Line 22	XXX		XXX	4,664,176	XXX	(a)	XXX	XXX		4,664,17
	DETAILS OF WRITE-INS										
0802.											
0803.											
	Summary of remaining write-ins for Line 8 from overflow page										
0899.	TOTALS (Lines 0801 thru 0803 plus 0898) (Line 8 above)										
1901.	,										
1902.											
1903.											
	Summary of remaining write-ins for Line 19 from overflow page										
	TOTALS (Lines 1901 thru 1903 plus 1998) (Line 19										

Life, Accident and Health Companies Only.		
(a) Group \$; Individual \$		
Fraternal Benefit Societies Only:		
(b) Paid-up insurance included in the final totals of Line 21 (including additions to certificates) number of certificates, Amount \$		
Additional accidental death benefits included in life certificates were in amount \$, Does the society collect any contributions from members for general expenses of the society under fully paid-up certificates?	Yes [] No []
If not, how are such expenses met?		

EXHIBIT OF LIFE INSURANCE

(\$000 Omitted for Amounts of Life Insurance) (Continued)
ADDITIONAL INFORMATION ON INSURANCE IN FORCE END OF YEAR

		Indu	strial	Ordi	nary
		1	2	3	4
		Number of Policies	Amount of Insurance	Number of Policies	Amount of Insurance
24.	Additions by dividends	XXX		XXX	
25.	Other paid-up insurance			4	9,125
26.	Debit ordinary insurance	XXX	XXX		

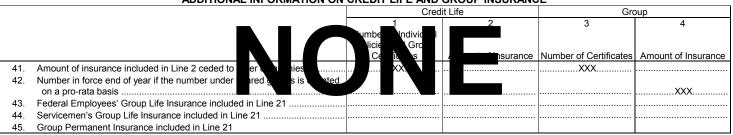
ADDITIONAL INFORMATION ON ORDINARY INSURANCE

			uring Year	In Force E	
		(Included	in Line 2)	(Included	in Line 21)
		1	2	3	4
	Term Insurance Excluding Extended Term Insurance	Number of Policies	Amount of Insurance	Number of Policies	Amount of Insurance
27.	Term policies - decreasing				
28.	Term policies - other				
29.	Other term insurance - decreasing	XXX		XXX	
30.	Other term insurance	XXX		XXX	90
31.	Totals (Lines 27 to 30)				90
	Reconciliation to Lines 2 and 21:				
32.	Term additions	XXX		XXX	
33.	Totals, extended term insurance	XXX	XXX	44	3,069
34.	Totals, whole life and endowment			24,527	8,151,559
35.	Totals (Lines 31 to 34)			24,571	8,154,718

CLASSIFICATION OF AMOUNT OF INSURANCE BY PARTICIPATING STATUS

	02/10011 10/111011 01 /11100111 01					
			ıring Year in Line 2)	In Force End of Year (Included in Line 21)		
		1	2	3	4	
		Non-Participating	Participating	Non-Participating	Participating	
36	Industrial					
37.	Ordinary			8, 154, 718		
38.	Credit Life (Group and Individual)					
39.	Group			2,180,636		
40.	Totals (Lines 36 to 39)			10,335,354		

ADDITIONAL INFORMATION ON CREDIT LIFE AND GROUP INSURANCE



ADDITIONAL ACCIDENTAL DEATH BENEFITS

46. Amount of additional accidental death benefits in force end of	year under ordinary policies	36,827



POLICIES WITH DISABILITY PROVISIONS

	i delate mini bio ibien i no morale												
			Industrial		Ordinary		Credit		Group				
		1	2	3	4	5	6	7	8				
								Number of					
		Number of		Number of		Number of		Certifi-	Amount of Ins				
	Disability Provisions	Policies	Amount of Insurance	Policies	Amount of Insurance	Policies	Amount of Insurance	cates	rance				
48.	Waiver of Premium			9,064	1,459,330								
49.	Disability Income												
50.	Extended Benefits			XXX									
51.	Other												
52.	Total		(a)	9,064	(a) 1,459,330		(a)		(a)				

⁽a) See the Annual Audited Financial Reports section of the annual statement instructions

EXHIBIT OF NUMBER OF POLICIES, CONTRACTS, CERTIFICATES, INCOME PAYABLE AND ACCOUNT VALUES IN FORCE FOR SUPPLEMENTARY CONTRACTS, ANNUITIES, ACCIDENT & HEALTH AND OTHER POLICIES

	SUPPLEMEN	NTARY CONTRACT	S		
,		Ord	inary	Gr	oup
		1	2	3	4
		Involving Life	Not Involving Life	Involving Life	Not Involving Life
		Contingencies	Contingencies	Contingencies	Contingencies
1.	In force end of prior year		97		
2.	Issued during year		2		
3.	Reinsurance assumed				
4.	Increased during year (net)				
5.	Total (Lines 1 to 4)		99		
	Deductions during year:				
6.	Decreased (net)		12		
7.	Reinsurance ceded				
8.	Totals (Lines 6 and 7)		12		
9.	In force end of year (line 5 minus line 8)		87		
10.	Amount on deposit				(a)
11	Income now navable		83		(-)

ANNUITIES

(a)

344,518 (a)

(a)

(a)

ANNUITIES											
		Ordi	inary	Gr	oup						
		1	2	3	4						
		Immediate	Deferred	Contracts	Certificates						
1.	In force end of prior year Issued during year		453								
2.	Issued during year										
3.	Reinsurance assumed										
4.	Increased during year (net)										
5.	Totals (Lines 1 to 4)		453								
	Deductions during year:										
6.	Decreased (net)		45								
7.	Reinsurance ceded										
8.	Totals (Lines 6 and 7)		45								
9.	In force end of year (line 5 minus line 8)		408								
	Income now payable:										
10.	Amount of income payable	(a)	XXX	XXX	(a)						
	Deferred fully paid:										
11.	Account balance	XXX	(a)	XXX	(a)						
	Deferred not fully paid:										
12.	Account balance	XXX	(a) 32,413,963	XXX	(a)						

ACCIDENT AND HEALTH INSURANCE

		Gro	oup	Cre	edit	Ot	her
		1	2	3	4	5	6
		Certificates	Premiums in Force	Policies	Premiums in Force	Policies	Premiums in Force
1.	In force end of prior year						
2.	Issued during year						
3.	Reinsurance assumed						
4.	Increased during year (net)		XXX		YYY		XXX
5.	Totals (Lines 1 to 4)		XXX		^^^		XXX
	Deductions during year:						
6.	Conversions		XX	×		XXX	XXX
7.	Decreased (net)				XXX		XXX
8.	Reinsurance ceded		XXX				XXX
9.	Totals (Lines 6 to 8)		XXX		XXX		XXX
10.	In force end of year (line 5						
	minus line 9)		(a)		(a)		(a)

DEPOSIT FUNDS AND DIVIDEND ACCUMULATIONS

		1	2
			Dividend
		Deposit Funds	Accumulations
		Contracts	Contracts
1.	In force end of prior year		
2.	Issued during year		
3.	Reinsurance assumed		
4.	Increased during year (net)		
5.	Totals (Lines 1 to 4)		
	Deductions During Year:		
6.	Decreased (net)		
7.	Reinsurance ceded		
8.	Totals (Lines 6 and 7)		
9.	In force end of year (line 5 minus line 8)		
10.	Amount of account balance	(a)	(a)

⁽a) See the Annual Audited Financial Reports section of the annual statement instructions.

Amount of income payable

FORM FOR CALCULATING THE INTEREST MAINTENANCE RESERVE

INTEREST MAINTENANCE RESERVE

		1 Amount
1.	Reserve as of December 31, Prior Year	832,918
2.	Current year's realized pre-tax capital gains/(losses) of \$	(29,468)
3.	Adjustment for current year's liability gains/(losses) released from the reserve	
4.	Balance before reduction for amount transferred to Summary of Operations (Line 1 + Line 2 + Line 3)	803,450
5.	Current year's amortization released to Summary of Operations (Amortization, Line 1, Column 4)	210,737
6.	Reserve as of December 31, current year (Line 4 minus Line 5)	592,713

AMORTIZATION

		1	2	3	4
	Year of Amortization	Reserve as of December 31, Prior Year	Current Year's Realized Capital Gains/(Losses) Transferred into the Reserve Net of Taxes	Adjustment for Current Year's Liability Gains/(Losses) Released From the Reserve	Balance Before Reduction for Current Year's Amortization (Cols. 1 + 2 + 3)
1.	2023	219,232	(8,495)		210,737
2.	2024	164,074	(8,885)		155 , 189
3.	2025	103,521	(5,192)		98,329
4.	2026	59,091	(3,776)		55,315
5.	2027	47,444	(2,319)		45 , 125
6.	2028	45,852	(800)		45,051
7.	2029	38,713			38,713
8.	2030	34,528			34,528
9.	2031	33,337			33,337
10.	2032	29,437			29,437
11.	2033	24,074			24,074
12.	2034				18,223
13.	2035	11,234			11,234
14.	2036	3,994			3,994
15.	2037	426			426
16.	2038	59			59
17.	2039	(194)			(194)
18.	2040	(108)			(108)
19.	2041	(1)			(1)
20.	2042	(11)			(11)
21.	2043	(6)			(6)
22.	2044				
23.	2045				
24.	2046				
25.	2047				
26.	2048				
27.	2049				
28.	2050				
29.	2051				
30.	2052				
31.	2053 and Later				
32.	Total (Lines 1 to 31)	832,918	(29,468)		803,450

ASSET VALUATION RESERVE

		Default Component Equity Component						
		1	2	3	4	5	6	7
		Other Than Mortgage Loans	Mortgage Loans	Total (Cols. 1 + 2)	Common Stock	Real Estate and Other Invested Assets	Total (Cols. 4 + 5)	Total Amount (Cols. 3 + 6)
1.	Reserve as of December 31, prior year	6,830,481	23,956	6,854,437	5,369	12,221	17,590	6,872,027
2.	Realized capital gains/(losses) net of taxes - General Account	(701,225)		(701,225)				(701,225)
3.	Realized capital gains/(losses) net of taxes - Separate Accounts	(53,644)		(53,644)				(53,644)
4.	Unrealized capital gains/(losses) net of deferred taxes - General Account	(256,581)		(256,581)	264	(48,630)	(48,366)	(304,947)
5.	Unrealized capital gains/(losses) net of deferred taxes - Separate Accounts							
6.	Capital gains credited/(losses charged) to contract benefits, payments or reserves							
7.	Basic contribution	1,250,019	2,480	1,252,498		1,015	1,015	1,253,513
8.	Accumulated balances (Lines 1 through 5 - 6 + 7)	7,069,049	26,436	7,095,485	5,633	(35,394)	(29,761)	7,065,724
9.	Maximum reserve	6,992,342	9,092	7,001,434	5,444	35,662	41,106	7,042,540
10.	Reserve objective	3,901,421	5,786	3,907,207	5,444	32,212	37,656	3,944,863
11.	20% of (Line 10 - Line 8)	(633,526)	(4, 130)	(637,656)	(38)	13,521	13,484	(624, 172)
12.	Balance before transfers (Lines 8 + 11)	6,435,523	22,306	6,457,829	5,595	(21,873)	(16,278)	6,441,551
13.	Transfers				(2,873)	2,873		
14.	Voluntary contribution							
15.	Adjustment down to maximum/up to zero					20,461	20,461	20,461
16.	Reserve as of December 31, current year (Lines 12 + 13 + 14 + 15)	6,435,523	22,306	6,457,829	2,722	1,461	4,183	6,462,012

ASSET VALUATION RESERVE BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS DEFAULT COMPONENT

	DEFAULT CONFONENT											
			1	2	3	4	Basic (Contribution	Reserv	e Objective	Maximu	ım Reserve
						Balance for	5	6	7	8	9	10
	NAIC			Reclassify		AVR Reserve						
	Desig-	D d. C.	Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber r	nation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
		LONG-TERM BONDS										
1.		Exempt Obligations	4,341,924	XXX	XXX	4,341,924	0.0000		0.0000		0.0000	
2.1	1	NAIC Designation Category 1.A	/3,8/1,682	XXX	XXX	73,871,682	0.0002	14,774	0.0007	51,710	0.0013	96,033
2.2	1	NAIC Designation Category 1.B	11,232,001	XXX	XXX	11,232,001	0.0004	4,493	0.0011	12,355	0.0023	25,834
2.3	1	NAIC Designation Category 1.C	9,044,077	XXX	XXX	9,044,077	0.0006	5,426	0.0018	16,279	0.0035	31,654
2.4	1	NAIC Designation Category 1.D	6,953,974	XXX	XXX	6,953,974	0.0007	4,868	0.0022	15,299	0.0044	30,597
2.5	1	NAIC Designation Category 1.E		XXX	XXX		0.0009	14,554	0.0027	43,662	0.0055	
2.6	1	NAIC Designation Category 1.F		XXX	XXX	20,255,412	0.0011	22,281	0.0034	68,868	0.0068	137,737
2.7	1	NAIC Designation Category 1.G		XXX	XXX	27,152,099	0.0014	38,013	0.0042	114,039	0.0085	230,793
2.8		Subtotal NAIC 1 (2.1+2.2+2.3+2.4+2.5+2.6+2.7)	164,680,277	XXX	XXX	164,680,277	XXX	104,409	XXX	322,212	XXX	641,589
3.1	2	NAIC Designation Category 2.A		XXX	XXX	34,764,179	0.0021	73,005	0.0063	219,014	0.0105	365,024
3.2	2	NAIC Designation Category 2.B	31, 137, 082	XXX	XXX	31, 137, 082	0.0025	77,843	0.0076	236,642	0.0127	395,441
3.3	2	NAIC Designation Category 2.C		XXX	XXX	10,741,080	0.0036	38,668	0.0108	116,004	0.0180	193,339
3.4		Subtotal NAIC 2 (3.1+3.2+3.3)		XXX	XXX	76,642,341	XXX	189,515	XXX	571,660	XXX	953,804
4.1	3	NAIC Designation Category 3.A	2,007,397	XXX	XXX	2,007,397	0.0069	13,851	0.0183		0.0262	52,594
4.2	3	NAIC Designation Category 3.B		XXX	XXX		0.0099		0.0264		0.0377	
4.3	3	NAIC Designation Category 3.C	1, 136, 163	XXX	XXX	1, 136, 163	0.0131	14,884	0.0350	39,766	0.0500	56,808
4.4		Subtotal NAIC 3 (4.1+4.2+4.3)	3,143,560	XXX	XXX	3,143,560	XXX	28,735	XXX	76,501	XXX	109,402
5.1	4	NAIC Designation Category 4.A	701,243	XXX	XXX	701,243	0.0184	12,903	0.0430	30,153	0.0615	43, 126
5.2	4	NAIC Designation Category 4.B	5,818	XXX	XXX	5,818	0.0238	138	0.0555	323	0.0793	461
5.3	4	NAIC Designation Category 4.C		XXX	XXX	86,564	0.0310	2,683	0.0724	6,267	0 . 1034	8,951
5.4		Subtotal NAIC 4 (5.1+5.2+5.3)	793,625	XXX	XXX	793,625	XXX	15,725	XXX	36,744	XXX	52,539
6.1	5	NAIC Designation Category 5.A	25,236	XXX	XXX	25,236	0.0472	1, 191	0.0846	2,135	0.1410	3,558
6.2	5	NAIC Designation Category 5.B		XXX	XXX		0.0663	, ,	0.1188	,	0.1980	
6.3	5	NAIC Designation Category 5.C		XXX	XXX		0.0836		0.1498		0.2496	
6.4		Subtotal NAIC 5 (6.1+6.2+6.3)	25.236	XXX	XXX	25,236	XXX	1.191	XXX	2,135	XXX	3,558
7.	6	NAIC 6	539.400	XXX	XXX	539,400	0.0000	1,101	0.2370	127.838	0.2370	127.838
8.	·	Total Unrated Multi-class Securities Acquired by Conversion .		XXX	XXX		XXX		XXX		XXX	
9		Total Long-Term Bonds (1+2.8+3.4+4.4+5.4+6.4+7+8)	250,166,363	XXX	XXX	250,166,363	XXX	339,575	XXX	1,137,090	XXX	1.888.730
<u> </u>		PREFERRED STOCKS	200, 100,000	7000	7000	200,100,000	7001	000,010	7000	1,101,000	7000	1,000,700
10.	1	Highest Quality		XXX	XXX		0.0005		0.0016		0.0033	
11.	2	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
12.	3	Medium Quality		XXX	XXX		0.0021		0.0263		0.0376	
13.	4	Low Quality		XXX	XXX		0.0245		0.0572		0.0817	
14.	5	Lower Quality		XXX	XXX		0.0630		0.1128		0.1880	
15.	6	In or Near Default		XXX	XXX		0.000		0.2370		0.2370	
16.	U	Affiliated Life with AVR		XXX	XXX		0.0000		0.0000		0.0000	
17.		Total Preferred Stocks (Sum of Lines 10 through 16)		XXX	XXX		XXX		XXX		XXX	
17.		Total Freiened Stocks (Suin of Lines to through 10)		^^^	***		^^^		^^^		^^^	

ASSET VALUATION RESERVE (Continued) BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS DEFAULT COMPONENT

	DEI AUET COMPONENT											
			1	2	3	4	Basic (Contribution	Reserv	e Objective	Maximu	ım Reserve
						Balance for	5	6	7	8	9	10
	AIC			Reclassify		AVR Reserve						
	esig-		Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber na	ation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
		SHORT-TERM BONDS										
18.		Exempt Obligations		XXX	XXX		0.0000		0.0000		0.0000	
19.1	1	NAIC Designation Category 1.A		XXX	XXX		0.0002		0.0007		0.0013	
19.2	1	NAIC Designation Category 1.B		XXX	XXX		0.0004		0.0011		0.0023	
19.3	1	NAIC Designation Category 1.C		XXX	XXX		0.0006		0.0018		0.0035	
19.4	1	NAIC Designation Category 1.D		XXX	XXX		0.0007		0.0022		0.0044	
19.5	1	NAIC Designation Category 1.E		XXX	XXX		0.0009		0.0027		0.0055	
19.6	1	NAIC Designation Category 1.F		XXX	XXX		0.0011		0.0034		0.0068	
19.7	1	NAIC Designation Category 1.G		XXX	XXX		0.0014		0.0042		0.0085	
19.8		Subtotal NAIC 1 (19.1+19.2+19.3+19.4+19.5+19.6+19.7)		XXX	XXX		XXX		XXX		XXX	
20.1	2	NAIC Designation Category 2.A	2,963,408	XXX	XXX	2.963.408	0.0021	6.223	0.0063	18.669	0.0105	31.116
20.2	2	NAIC Designation Category 2.B		XXX	XXX	_,,,,,,,,,,	0.0025	,	0.0076	, , , , , , , , , , , , , , , , , , , ,	0.0127	• • • • • • • • • • • • • • • • • • • •
20.3	2	NAIC Designation Category 2.C		XXX	XXX		0.0036		0.0108		0.0180	
20.4	-	Subtotal NAIC 2 (20.1+20.2+20.3)	2.963.408	XXX	XXX	2.963.408	XXX	6,223	XXX	18,669	XXX	31.116
21.1	3	NAIC Designation Category 3.A	2,000,400	XXX	XXX	2,000,400	0.0069	0,220	0.0183	10,000	0.0262	01,110
21.1	2	NAIC Designation Category 3.B		XXX	XXX		0.0099		0.0264		0.0377	
21.2	3	NAIC Designation Category 3.B		XXX	XXX		0.0131		0.0350		0.0500	
	3						XXX					
21.4		Subtotal NAIC 3 (21.1+21.2+21.3)		XXX	XXX				XXX		XXX	
22.1	4	NAIC Designation Category 4.A		XXX	XXX		0.0184		0.0430		0.0615	
22.2	4	NAIC Designation Category 4.B		XXX	XXX		0.0238		0.0555		0.0793	
22.3	4	NAIC Designation Category 4.C		XXX	XXX		0.0310		0.0724		0.1034	
22.4		Subtotal NAIC 4 (22.1+22.2+22.3)		XXX	XXX		XXX		XXX		XXX	
23.1	5	NAIC Designation Category 5.A		XXX	XXX		0.0472		0.0846		0.1410	
23.2	5	NAIC Designation Category 5.B		XXX	XXX		0.0663		0.1188		0.1980	
23.3	5	NAIC Designation Category 5.C		XXX	XXX		0.0836		0.1498		0.2496	
23.4		Subtotal NAIC 5 (23.1+23.2+23.3)		XXX	XXX		XXX		XXX		XXX	
24.	6	NAIC 6		XXX	XXX		0.0000		0.2370		0.2370	
25.		Total Short-Term Bonds (18+19.8+20.4+21.4+22.4+23.4+24)	2,963,408	XXX	XXX	2,963,408	XXX	6,223	XXX	18,669	XXX	31,116
		DERIVATIVE INSTRUMENTS				. ,		, -		, -		,
26.		Exchange Traded		XXX	xxx		0.0005		0.0016		0.0033	
27.	1	Highest Quality		XXX	XXX		0.0005		0.0016		0.0033	
28.	2	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
29.	3	Medium Quality		XXX	XXX		0.0099		0.0263		0.0376	
30.	4	Low Quality		XXX	XXX		0.0245		0.0572		0.0817	
31.	5	Lower Quality		XXX	XXX		0.0630		0.1128		0.1880	
32.	6	In or Near Default		XXX	XXX		0.0000		0.2370		0.2370	
33.	5	Total Derivative Instruments		XXX	XXX		XXX		XXX		XXX	
34.			253.129.771	XXX	XXX	253.129.771	XXX	345.798	XXX	1.155.759	XXX	1.919.845
34.		Total (Lines 9 + 17 + 25 + 33)	200, 129,771	XXX	XXX	200, 129,771	XXX	345,798	XXX	1, 100, /09	XXX	1,919,845

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ASSET VALUATION RESERVE (Continued) BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS DEFAULT COMPONENT

				DL	LIAULIU		4 1					
			1	2	3	4	Basic Co	ontribution	Reserve	e Objective	Maximu	m Reserve
Line Num- ber	NAIC Desig- nation	Description	Book/Adjusted Carrying Value	Reclassify Related Party Encumbrances	Add Third Party Encumbrances	Balance for AVR Reserve Calculations (Cols. 1 + 2 + 3)	5 Factor	6 Amount (Cols.4 x 5)	7 Factor	8 Amount (Cols. 4 x 7)	9 Factor	10 Amount (Cols. 4 x 9)
		MORTGAGE LOANS	, ,					(,		, , , , , , , , , , , , , , , , , , , ,
		In Good Standing:										
35.		Farm Mortgages - CM1 - Highest Quality			XXX		0.0011		0.0057		0.0074	
36.		Farm Mortgages - CM2 - High Quality			XXX		0.0040		0.0114		0.0149	
37.		Farm Mortgages - CM3 - Medium Quality			XXX		0.0069		0.0200		0.0257	
38.		Farm Mortgages - CM4 - Low Medium Quality			XXX		0.0120		0.0343		0.0428	
39.		Farm Mortgages - CM5 - Low Quality			XXX		0.0183		0.0486		0.0628	
40.		Residential Mortgages - Insured or Guaranteed	1,335,508		XXX	1,335,508	0.0003	401	0.0007	935	0.0011	1,469
41.		Residential Mortgages - All Other			XXX		0.0015		0.0034		0.0046	
42.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0003		0.0007		0.0011	
43.		Commercial Mortgages - All Other - CM1 - Highest Quality					0.0011		0.0057		0.0074	
44.		Commercial Mortgages - All Other - CM2 - High Quality					0.0040		0.0114		0.0149	
45.		Commercial Mortgages - All Other - CM3 - Medium Quality .			XXX		0.0069		0.0200		0.0257	
46.		Commercial Mortgages - All Other - CM4 - Low Medium Quality			xxx		0.0120		0.0343		0.0428	
47.		Commercial Mortgages - All Other - CM5 - Low Quality			XXX		0.0183		0.0486		0.0628	
		Overdue, Not in Process:										
48.		Farm Mortgages			XXX		0.0480		0.0868		0.1371	
49.		Residential Mortgages - Insured or Guaranteed					0.0006		0.0014		0.0023	
50.		Residential Mortgages - All Other			XXX		0.0029		0.0066		0.0103	
51.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0006		0.0014		0.0023	
52.		Commercial Mortgages - All Other			XXX		0.0480		0.0868		0.1371	
		In Process of Foreclosure:										
53.		Farm Mortgages					0.0000		0.1942		0.1942	
54.		Residential Mortgages - Insured or Guaranteed					0.0000		0.0046		0.0046	
55.		Residential Mortgages - All Other			XXX		0.0000		0.0149		0.0149	
56.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0000		0.0046		0.0046	
57.		Commercial Mortgages - All Other			XXX		0.0000		0.1942		0.1942	
58.		Total Schedule B Mortgages (Sum of Lines 35 through 57)	1,335,508		XXX	1,335,508	XXX	401	XXX	935	XXX	1,469
59.		Schedule DA Mortgages			XXX		0.0034		0.0114		0.0149	
60		Total Mortgage Loans on Real Estate (Lines 58 + 59)	1.335.508		XXX	1.335.508	XXX	401	XXX	935	XXX	1.469

ASSET VALUATION RESERVE BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS

EQUITY AND OTHER INVESTED ASSET COMPONENT

EQUIT AND OTHER INVESTED ASSET COMPONENT												
			1	2	3	4		ontribution	Reserve (•	Maximum Reserve	
Line Num- ber		Description	Book/Adjusted Carrying Value	Reclassify Related Party Encumbrances	Add Third Party Encumbrances	Balance for AVR Reserve Calculations (Cols. 1 + 2 + 3)	5 Factor	6 Amount (Cols.4 x 5)	7 Factor	8 Amount (Cols. 4 x 7)	9 Factor	10 Amount (Cols. 4 x 9)
		COMMON STOCK										
1.		Unaffiliated - Public			XXX	22,971	0.0000		0.2370 (a)	5,444	0.2370 (a)	5,444
2.		Unaffiliated - Private		XXX			0.0000		0 . 1945		0.1945	
3.		Federal Home Loan Bank		XXX			0.0000				0.0097	
4.		Affiliated - Life with AVR		XXX	XXX		0.0000		0.0000		0.0000 .	
		Affiliated - Investment Subsidiary:										
5.		Fixed Income - Exempt Obligations					XXX				XXX	
6.		Fixed Income - Highest Quality					XXX		XXX		XXX	
7.		Fixed Income - High Quality					XXX				XXX	
8.		Fixed Income - Medium Quality					XXX		XXX		XXX	
9.		Fixed Income - Low Quality					XXX		XXX		XXX	
10.		Fixed Income - Lower Quality					XXX		XXX		XXX	
11.		Fixed Income - In/Near Default					XXX		XXX		XXX	
12.		Unaffiliated Common Stock - Public					0.0000		0.1580 (a)		0.1580 (a)	
13.		Unaffiliated Common Stock - Private					0.0000		0 . 1945		0.1945	
14.		Real Estate					(b)		(b)		(b)	
15.		Affiliated - Certain Other (See SVO Purposes and Procedures Manual)		xxx	xxx		0.0000		0.1580		0.1580	
16.		Affiliated - All Other		XXX	XXX		0.0000		0.1945		0.1945	
17.		Total Common Stock (Sum of Lines 1 through 16)	22,971			22,971	XXX		XXX	5,444	XXX	5,444
		REAL ESTATE	,			,				·		,
18.		Home Office Property (General Account only)					0.0000				0.0912	
19.		Investment Properties					0.0000		0.0912		0.0912	
20.		Properties Acquired in Satisfaction of Debt					0.0000		0.1337		0.1337	
21.		Total Real Estate (Sum of Lines 18 through 20)					XXX		XXX		XXX	
		OTHER INVESTED ASSETS INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS OF BONDS										
22.		Exempt Obligations		XXX	XXX		0.0000				0.0000 .	
23.	1	Highest Quality		XXX	XXX		0.0005		0.0016		0.0033 .	
24.	2	High Quality					0.0021		0.0064		0.0106	
25.	3	Medium Quality					0.0099		0.0263		0.0376	
26.	4	Low Quality			XXX		0.0245		0.0572		0.0817	
27.	5	Lower Quality		XXX	XXX		0.0630		0.1128		0.1880	
28.	6	In or Near Default		XXX	XXX		0.0000		0.2370		0.2370	
29.		Total with Bond Characteristics (Sum of Lines 22 through 28)		XXX	XXX		XXX		XXX		XXX	

ASSET VALUATION RESERVE (Continued) BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS EQUITY AND OTHER INVESTED ASSET COMPONENT

	EQUITY AND OTHER INVESTED ASSET COMPONENT											
			1	2	3	4	Basic C	Contribution	Reserv	e Objective	Maximu	m Reserve
						Balance for	5	6	7	8	9	10
Line				Reclassify		AVR Reserve						
Num-			Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber	nation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
		INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS										
		OF PREFERRED STOCKS					0 0005		0 0040		0.0000	
30.	1	Highest Quality		XXX	XXX		0.0005		0.0016		0.0033	
31.	2	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
32.	3	Medium Quality		XXX	XXX		0.0099		0.0263		0.0376	
33.	4	Low Quality		XXX	XXX		0.0245		0.0572		0.0817	
34.	5	Lower Quality		XXX	XXX		0.0630		0.1128		0.1880	
35.	6			XXX	XXX		0.0000		0.2370		0.2370	
36.		Affiliated Life with AVR		XXX	XXX		0.0000		0.0000		0.0000	
37.		Total with Preferred Stock Characteristics (Sum of Lines 30		1000	2007		2007		2007		100/	
		through 36) INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS		XXX	XXX		XXX		XXX		XXX	
		OF MORTGAGE LOANS										
		In Good Standing Affiliated:			2001		0 0011		0.0057		0.0074	
38.		Mortgages - CM1 - Highest Quality			XXX		0.0011					
39.		Mortgages - CM2 - High Quality			XXX		0.0040 0.0069		0.0114		0.0149 . 0.0257	
40.		Mortgages - CM3 - Medium Quality			XXX				0.0200 0.0343			
41.		Mortgages - CM4 - Low Medium Quality			XXX		0.0120		0.0486		0.0428	
42.		Mortgages - CM5 - Low Quality			XXX		0.0183		0.0486		0.0628	
43.		Residential Mortgages - Insured or Guaranteed			XXX		0.0003				0.0011 .	
44.		Residential Mortgages - All Other			XXX		0.0015		0.0034			
45.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0003		0.0007		0.0011	
40		Overdue, Not in Process Affiliated:			XXX		0.0480		0.0868		0.1371	
46. 47.		Farm Mortgages					0.0460		0.0014		0.0023	
					XXXXXX		0.0008		0.0014		0.0103	
48.		Residential Mortgages - All Other			XXX		0.0029		0.0014		0.0023	
49. 50.		Commercial Mortgages - Insured or Guaranteed Commercial Mortgages - All Other			XXX		0.0480		0.0868		0.1371	
50.		In Process of Foreclosure Affiliated:					0.0400		0.0000			
E4					XXX		0.0000		0.1942		0.1942	
51. 52.		Farm Mortgages Residential Mortgages - Insured or Guaranteed			XXX		0.0000		0.0046		0.0046	
53.		Residential Mortgages - All Other			XXX		0.0000		0.0149		0.0149	
53. 54.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0000		0.0046		0.0046	
55.		Commercial Mortgages - All Other			XXX		0.0000		0.1942		0.1942	
56.		Total Affiliated (Sum of Lines 38 through 55)			XXX		XXX		XXX		XXX	
57.		` ,			XXX							
		Unaffiliated - In Good Standing With Covenants			XXX		(c)		(c)		(c)	
58.		Unaffiliated - In Good Standing Defeased With Government Securities			XXX		0.0011		0.0057		0.0074	
59.		Unaffiliated - In Good Standing Primarily Senior			XXX		0.0040	•••••	0.0114		0.0149	
60.		Unaffiliated - In Good Standing All Other			XXX		0.0040		0.0200		0.0149	
61.		Unaffiliated - Overdue, Not in Process			XXX		0.0480	•••••	0.0200		0.1371	
62.		Unaffiliated - In Process of Foreclosure			XXX		0.0000	•••••	0.1942		0.1942	
63.		Total Unaffiliated (Sum of Lines 57 through 62)		+	XXX		XXX		XXX		XXX	
64.		Total with Mortgage Loan Characteristics (Lines 56 + 63)			XXX		XXX		XXX		XXX	
04.	1	rotal with Mortgage Loan Characteristics (Lines 56 + 63)		<u> </u>	XXX	1	XXX		XXX		XXX	

ASSET VALUATION RESERVE (Continued) BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS EQUITY AND OTHER INVESTED ASSET COMPONENT

			LQUIII			ILD ACC		CITEI				
			1	2	3	4		ontribution		e Objective	Maximum Reserve	
Line Num-	NAIC Desig-		Book/Adjusted	Reclassify Related Party	Add Third Party	Balance for AVR Reserve Calculations	5	6 Amount	7	8 Amount	9	10 Amount
ber	nation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
bei	nation	INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS OF COMMON STOCK	Carrying value	Literibrances	Effectionalises	(0013. 1 + 2 + 0)	1 40.01	(0013.4 x 0)	1 dotoi	(0013. 4 X 1)	1 dotoi	(0013. 4 x 3)
65.		Unaffiliated Public		XXX	XXX		0.0000		0.1580 (a)		0.1580 (a)	
66.		Unaffiliated Private		XXX	XXX		0.0000		0. 1945		0.1945	
67.		Affiliated Life with AVR		XXX	XXX		0.0000		0.0000		0.0000	
68.		Affiliated Certain Other (See SVO Purposes & Procedures										
		Manual)		XXX	XXX		0.0000		0 . 1580		0 . 1580	
69.		Affiliated Other - All Other		XXX	XXX		0.0000		0.1945		0.1945	
70.		Total with Common Stock Characteristics (Sum of Lines 65 through 69)		xxx	xxx		XXX		XXX		XXX	
		INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS OF REAL ESTATE										
71.		Home Office Property (General Account only)					0.0000		0.0912		0.0912	
72.		Investment Properties					0.0000		0.0912		0.0912	
73		Properties Acquired in Satisfaction of Debt					0.0000		0.1337		0.1337	
74.		Total with Real Estate Characteristics (Sum of Lines 71 through 73)					XXX		XXX		XXX	
		LOW INCOME HOUSING TAX CREDIT INVESTMENTS										
75.		Guaranteed Federal Low Income Housing Tax Credit					0.0003		0.0006		0.0010	
76.		Non-guaranteed Federal Low Income Housing Tax Credit					0.0063		0.0120		0.0190	
77.		Guaranteed State Low Income Housing Tax Credit					0.0003		0.0006		0.0010	
78.		Non-guaranteed State Low Income Housing Tax Credit					0.0063		0.0120		0.0190	
79.		All Other Low Income Housing Tax Credit					0.0273		0.0600		0.0975	
80.		Total LIHTC (Sum of Lines 75 through 79)					XXX		XXX		XXX	
		RESIDUAL TRANCHES OR INTERESTS										
81.		Fixed Income Instruments - Unaffiliated	183,328	XXX		183,328	0.0000		0 . 1580	28,966	0.1580	28,966
82.		Fixed Income Instruments - Affiliated					0.0000		0 . 1580		0 . 1580	
83.		Common Stock - Unaffiliated					0.0000		0 . 1580		0 . 1580	
84.		Common Stock - Affiliated		·····			0.0000		0 . 1580		0 . 1580	
85.		Preferred Stock - Unaffiliated		XXX	XXX		0.0000		0 . 1580		0 . 1580	
86.		Preferred Stock - Affiliated		XXX			0.0000		0 . 1580		0.1580	
87.		Real Estate - Unaffiliated					0.0000		0 . 1580		0.1580	
88.		Real Estate - Affiliated					0.0000		0 . 1580		0.1580	
89.		Mortgage Loans - Unaffiliated					0.0000		0 . 1580		0.1580	
90.		Mortgage Loans - Affiliated		XXX	XXX		0.0000		0.1580		0.1580	
91.		Other - Unaffiliated		XXX	XXX		0.0000		0.1580		0.1580	
92.		Other - Affiliated		XXX	XXX		0.0000		0.1580		0.1580	
93.		Total Residual Tranches or Interests (Sum of Lines 81 through 92)	183,328			183,328	XXX		XXX	28,966	XXX	28,966
		ALL OTHER INVESTMENTS										
94.		NAIC 1 Working Capital Finance Investments		XXX			0.0000		0.0042		0.0042	
95.		NAIC 2 Working Capital Finance Investments		XXX			0.0000		0.0137		0.0137	
96.		Other Invested Assets - Schedule BA		XXX			0.0000		0 . 1580		0 . 1580	
97.		Other Short-Term Invested Assets - Schedule DA		XXX			0.0000		0.1580		0.1580	
98.		Total All Other (Sum of Lines 94, 95, 96 and 97)		XXX			XXX		XXX		XXX	
99.		Total Other Invested Assets - Schedules BA & DA (Sum of Lines 29, 37, 64, 70, 74, 80, 93 and 98)	183,328			183,328	XXX		xxx	28,966	xxx	28,966

⁽a) Times the company's weighted average portfolio beta (Minimum .1215, Maximum .2431).

⁽b) Determined using the same factors and breakdowns used for directly owned real estate.

⁽c) This will be the factor associated with the risk category determined in the company generated worksheet.

Asset Valuation Reserve - Replications (Synthetic) Assets

NONE

Schedule F - Claims

NONE

Schedule H - Part 1 - Analysis of Underwriting Operations

NONE

Schedule H - Part 2 - Reserves and Liabilities

NONE

Schedule H - Part 3 - Test of Prior Year's Claim Reserves and Liabilities

NONE

Schedule H - Part 4 - Reinsurance

NONE

Schedule H - Part 5 - Health Claims

NONE

Schedule S - Part 1 - Section 1

NONE

Schedule S - Part 1 - Section 2

NONE

SCHEDULE S - PART 2

Reinsurance Recoverable on Paid and Unpaid Losses Listed by Reinsuring Company as of December 31, Current Year

1 1	2	3	4	5	6	7
NAIC	2	3	*	3	U	'
Company	ID	Effective		Domiciliary		
Code	Number	Date	Name of Company	Jurisdiction	Paid Losses	Unpaid Losses
65935	04-1590850					631.764
	04-1590850	5,749,073	10.257.454			
0299999. Lit	fe and Annuit	y - U.S. Affiliate	· · ·		5,760,894	10,889,218
		nnuity - U.S. A			5.760.894	10,889,218
		Annuity - Non-L			-, , -	, -,
		Annuity - Affiliat			5,760,894	10,889,218
86258	13-2572994	02/08/1999	GENERAL RE LIFE CORPORATION (CO81)	CT	42,493	297,407
65676	35-0472300	02/08/1999	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN81)	IN	62,870	
66346	58-0828824	02/08/1999	MUNICH AMERICAN REASSURANCE COMPANY (MU81)	GA	80,076	704,301
66346		01/01/1999	MUNICH AMERICAN REASSURANCE COMPANY (MU82)	GA	85,513	263,351
93572		01/01/1999	RGA REINSURANCE COMPANY (AZ82)	MO	116,860	313, 123
93572		02/08/1999	RGA REINSURANCE COMPANY (GA81)	MO	78,973	435,462
			SWISS RE LIFE & HEALTH AMERICA INC. (SR16)	MO		
0899999. Lit	fe and Annuity	y - U.S. Non-A	filiates		3,473,411	5,545,215
1099999. To	otal Life and A	Annuity - Non-A	ffiliates		3,473,411	5,545,215
1199999. To	otal Life and A	nnuity			9,234,305	16,434,433
1499999. To	otal Accident	and Health - U.	S. Affiliates			
1799999. To	otal Accident	and Health - No	on-U.S. Affiliates			
1899999. To	tal Accident	and Health - Af	filiates			
2199999. To	otal Accident	and Health - No	on-Affiliates			
2299999. To	otal Accident	and Health				
2399999. To	otal U.S. (Sun	n of 0399999, (0899999, 1499999 and 1999999)		9,234,305	16,434,433
2499999. To	otal Non-U.S.	(Sum of 06999	999, 0999999, 1799999 and 2099999)			
9999999 To	tals - Life, An	nuity and Accid	dent and Health		9,234,305	16,434,433

SCHEDULE S - PART 3 - SECTION 1

Reinsurance Ceded Life Insurance, Annuities, Deposit Funds and Other Liabilities Without Life or Disability Contingencies, and Related Benefits Listed by Reinsuring Company as of December 31, Current Year

	0		rance Ceded Life Insurance, Annuities, Deposit Funds and	1			,							45
1	2	3	4	5	6	7	8	Reserve Cre		11	Outstanding S		14	15
NAIG				Domi-	T	T		9	10		12	13	NA - PC - I	E I. MOULE LI
NAIC	ID.	F. (C (C		ciliary	Type of	Type of	A						Modified	Funds Withheld
Company	ID	Effective	Name of Occasion	Juris-	Reinsurance	Business	Amount in Force	0	District	D	0	District	Coinsurance	Under
Code	Number	Date	Name of Company	diction	Ceded	Ceded	at End of Year	Current Year	Prior Year	Premiums	Current Year	Prior Year	Reserve	Coinsurance
			MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA	YRT/I	0L	256,789,995	4,039,199	4,152,916	4,680,911				
	0299999. General Account - Authorized U.S. Affiliates - Other					256,789,995	4,039,199	4,152,916	4,680,911					
			uthorized U.S. Affiliates				256,789,995	4,039,199	4,152,916	4,680,911				
			uthorized Non-U.S. Affiliates											
			uthorized Affiliates				256,789,995	4,039,199	4,152,916	4,680,911				
			CANADA LIFE ASSURANCE COMPANY (CR57)	MI	YRT/I	OL	622,871	3,089	3,075	2,912				
86258	13-2572994		GENERAL RE LIFE CORPORATION (CO81)		YRT/I	OL	182,978,646	2,073,833 .	2,069,595	1,319,986				
65676	35-0472300	. 01/05/1983 .	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN16)		YRT/I	OL	2,658,173	13, 185	13 , 122	13,517				
65676	35-0472300	. 02/08/1999 .	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN81)		YRT/I	0L	277,736,354	3, 147, 961	3,141,594	1,977,098				
66346	58-0828824		MUNICH AMERICAN REASSURANCE COMPANY (CA48)		YRT/I	0L	178,394	885 .	881	761				
66346	58-0828824		MUNICH AMERICAN REASSURANCE COMPANY (MU81)		YRT/I	0L	462,333,982	5,240,460 .	5,229,788	3,046,938				
66346	58-0828824		MUNICH AMERICAN REASSURANCE COMPANY (MU82)		YRT/I	0L	119,714,782	1,527,367	1,558,405	956,060				
66346	58-0828824		MUNICH AMERICAN REASSURANCE COMPANY (MUL7)		YRT/I	0L	14,963	35 .		70				
93572	43-1235868		RGA REINSURANCE COMPANY (AZ51)		YRT/I	0L	695,024	3,447	3,431	2,907				
93572	43-1235868		RGA REINSURANCE COMPANY (AZ82)	MO	YRT/I	0L	143,861,881	1,835,091	1,872,383	1,464,322				
93572	43-1235868		RGA REINSURANCE COMPANY (GA81)	MO	YRT/I	0L	277,736,354	3,147,961	3,141,594	1,944,233				
93572	43-1235868		RGA REINSURANCE COMPANY (GAL7)	MO	YRT/I	0L	39,901	93 .		193				
64688	75–6020048		SCOR GLOBAL LIFE AMERICAS REINSURANCE COMPANY (TAL7)		YRT/I	OL	9,975	23 .		46				
	13-3126819		SCOR GLOBAL LIFE USA REINSURANCE COMPANY (GIL7)		YRT/I		24,938	58 .		104				
	06-0839705		SWISS RE LIFE & HEALTH AMERICA INC. (SR16V)	MO	MCO/I	0L	1,761,674,262			8,953,894	21,498,783	22,903,068	124,776,730	
			SWISS RE LIFE & HEALTH AMERICA INC. (SR59)	MO	YRT/I	0L	3,471,439	17,219	17 , 137	19,930				
			zed U.S. Non-Affiliates				3,233,751,939	17,010,707	17,051,005	19,702,971	21,498,783	22,903,068	124,776,730	
			uthorized Non-Affiliates				3,233,751,939	17,010,707	17,051,005	19,702,971	21,498,783	22,903,068	124,776,730	
1199999.	Total Genera	I Account Aut	thorized				3,490,541,934	21,049,906	21,203,921	24,383,882	21,498,783	22,903,068	124,776,730	
1499999.	Total Genera	I Account - U	nauthorized U.S. Affiliates											
1799999.	Total Genera	I Account - U	nauthorized Non-U.S. Affiliates											
1899999.	Total Genera	I Account - U	nauthorized Affiliates											
2199999.	Total Genera	I Account - U	nauthorized Non-Affiliates											
2299999.	Total Genera	I Account Una	authorized											
			ertified U.S. Affiliates											
			ertified Non-U.S. Affiliates											
			ertified Affiliates											
			ertified Non-Affiliates											
		I Account Cer												
			eciprocal Jurisdiction U.S. Affiliates											
			eciprocal Jurisdiction Non-U.S. Affiliates											
			eciprocal Jurisdiction Noti-o.S. Anniates											
			eciprocal Jurisdiction Anniates eciprocal Jurisdiction Non-Affiliates											
			ciprocal Jurisdiction					0	24 222 224		04 400 700		101 770 700	
			thorized, Unauthorized, Reciprocal Jurisdiction and Certified	1	1 1100 /0		3,490,541,934	21,049,906	21,203,921	24,383,882	21,498,783	22,903,068	124,776,730	
			MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA	MCO/G	OL	2, 180, 636, 340			1,185,896			1,233,339,760	
			orized U.S. Affiliates - Other				2,180,636,340			1,185,896			1,233,339,760	
			Authorized U.S. Affiliates				2,180,636,340			1,185,896			1,233,339,760	
			Authorized Non-U.S. Affiliates											
			Authorized Affiliates				2,180,636,340			1,185,896			1,233,339,760	
			SWISS RE LIFE & HEALTH AMERICA INC. (SR16V)	MO	MCO/I	0L								
			orized U.S. Non-Affiliates										762,961,339	
5599999.	Total Separa	te Accounts -	Authorized Non-Affiliates										762,961,339	
5699999.	Total Separa	te Accounts A	Authorized				2,180,636,340			1,185,896			1,996,301,099	
			Unauthorized U.S. Affiliates											
6299999.	Total Separa	te Accounts -	Unauthorized Non-U.S. Affiliates											
			Unauthorized Affiliates											
			Unauthorized Non-Affiliates											
		te Accounts L												
0,00000.	. Juli Jopaia						1				ıl			1

SCHEDULE S - PART 3 - SECTION 1

Reinsurance Ceded Life Insurance, Annuities, Deposit Funds and Other Liabilities Without Life or Disability Contingencies, and Related Benefits Listed by Reinsuring Company as of December 31, Current Year

1	2	3	4	5	6	7	8	Reserve Cr	edit Taken	11	Outstanding S	Surplus Relief	14	15
	_		,	Domi-		*		9	10		12	13		
NAIC				ciliary	Type of	Type of						-	Modified	Funds Withheld
Company	ID	Effective		Juris-	Reinsurance	Business	Amount in Force						Coinsurance	Under
Code	Number	Date	Name of Company	diction	Ceded	Ceded	at End of Year	Current Year	Prior Year	Premiums	Current Year	Prior Year	Reserve	Coinsurance
7099999.	Total Separat	e Accounts -	Certified U.S. Affiliates											
7399999.	Total Separate	e Accounts -	Certified Non-U.S. Affiliates											
7499999.	Total Separate	e Accounts -	Certified Affiliates											
7799999.	Total Separate	e Accounts -	Certified Non-Affiliates											
7899999.	Total Separate	e Accounts C	Certified											
8199999.	Total Separat	e Accounts -	Reciprocal Jurisdiction U.S. Affiliates											
8499999.	Total Separat	e Accounts -	Reciprocal Jurisdiction Non-U.S. Affiliates											
8599999.	Total Separate	e Accounts -	Reciprocal Jurisdiction Affiliates											
8899999.	Total Separat	e Accounts -	Reciprocal Jurisdiction Non-Affiliates											
8999999.	Total Separate	e Accounts F	Reciprocal Jurisdiction											
9099999.	Total Separate	e Accounts A	Authorized, Unauthorized, Reciprocal Jurisdiction and Certified				2,180,636,340			1,185,896			1,996,301,099	
9199999.	Total U.S. (Su	m of 039999	99, 0899999, 1499999, 1999999, 2599999, 3099999, 3699999, 4199	999, 48999	999, 5399999, 599	9999, 6499999,								
	7099999, 75	99999, 8199	999 and 8699999)				5,671,178,274	21,049,906	21,203,921	25,569,778	21,498,783	22,903,068	2,121,077,829	
9299999.			399999, 0999999, 17999999, 2099999, 28999999, 31999999, 39999999,	4299999, 5	5199999, 5499999	, 6299999,								
		99999, 7699	999, 8499999 and 8799999)											
9999999 -	Totals						5,671,178,274	21,049,906	21,203,921	25,569,778	21,498,783	22,903,068	2,121,077,829	

Schedule S - Part 3 - Section 2

NONE

Schedule S - Part 4

NONE

Schedule S - Part 4 - Bank Footnote

NONE

Schedule S - Part 5

NONE

Schedule S - Part 5 - Bank Footnote

NONE

SCHEDULE S - PART 6

Five Year Exhibit of Reinsurance Ceded Business (\$000 Omitted)

		1 2023	2 2022	3 2021	4 2020	5 2019
	A. OPERATIONS ITEMS		-			
1.	Premiums and annuity considerations for life and					
	accident and health contracts					
2.	Commissions and reinsurance expense allowances .					
3.	Contract claims					
4.	Surrender benefits and withdrawals for life contracts.					
5.	Dividends to policyholders and refunds to members .					
6.	Reserve adjustments on reinsurance ceded	(81,844)	(112,808)	(78,830)	(70,013)	(72, 165)
7.	Increase in aggregate reserve for life and accident and health contracts	(154)	324	(232)	18	(345)
	B. BALANCE SHEET ITEMS					
8.	Premiums and annuity considerations for life and accident and health contracts deferred and uncollected	927	(200)	1,171	(603)	(831)
9.	Aggregate reserves for life and accident and health contracts	21,050	21,204	20,880	21,111	21,093
10.	Liability for deposit-type contracts					
11.	Contract claims unpaid	16,434	8,958	13 , 165	12,447	4,565
12.	Amounts recoverable on reinsurance	9,234	7,749	7,715	7,479	1,679
13.	Experience rating refunds due or unpaid	2,073	3,259	2,633	2,943	3,718
14.	Policyholders' dividends and refunds to members (not included in Line 10)					
15.	Commissions and reinsurance expense allowances due	2,537	2,520	26,673	28,453	12,590
16.	Unauthorized reinsurance offset					
17.	Offset for reinsurance with Certified Reinsurers					
	C. UNAUTHORIZED REINSURANCE (DEPOSITS BY AND FUNDS WITHHELD FROM)					
18.	Funds deposited by and withheld from (F)					
19.	Letters of credit (L)					
20.	Trust agreements (T)					
21.	Other (O)					
	D. REINSURANCE WITH CERTIFIED REINSURERS (DEPOSITS BY AND FUNDS WITHHELD FROM)					
22.	Multiple Beneficiary Trust					
23.	Funds deposited by and withheld from (F)					
24.	Letters of credit (L)					
25.	Trust agreements (T)					
26.	Other (O)					

SCHEDULE S - PART 7

Restatement of Balance Sheet to Identify	/ Net Credit for Ceded Reinsurance
restatement of balance officer to identify	rice order for ocaca remained

		1 As Reported (net of ceded)	2 Restatement Adjustments	3 Restated (gross of ceded)
	ASSETS (Page 2, Col. 3)			
1.	Cash and invested assets (Line 12)	415,103,610		415,103,610
2.	Reinsurance (Line 16)	17,541,718	(17,541,718)	
3.	Premiums and considerations (Line 15)	(3,000,546)	927,136	(2,073,410
4.	Net credit for ceded reinsurance	XXX	35,421,621	35,421,621
5.	All other admitted assets (balance)	7,486,908		7,486,908
6.	Total assets excluding Separate Accounts (Line 26)	437,131,691	18,807,039	455,938,730
7.	Separate Account assets (Line 27)	4,672,460,875		4,672,460,875
8.	Total assets (Line 28)	5,109,592,566	18,807,039	5,128,399,605
	LIABILITIES, CAPITAL AND SURPLUS (Page 3)			
9.	Contract reserves (Lines 1 and 2)	141,691,572	21,049,905	162,741,477
10.	Liability for deposit-type contracts (Line 3)	11,090,594		11,090,594
11.	Claim reserves (Line 4)			
12.	Policyholder dividends/member refunds/reserves (Lines 5 through 7)			
13.	Premium & annuity considerations received in advance (Line 8)			
14.	Other contract liabilities (Line 9)			
15.	Reinsurance in unauthorized companies (Line 24.02 minus inset amount)			
16.	Funds held under reinsurance treaties with unauthorized reinsurers (Line 24.03 minus inset amount)			
17.	Reinsurance with Certified Reinsurers (Line 24.02 inset amount)			
18.	Funds held under reinsurance treaties with Certified Reinsurers (Line 24.03 inset amount)			
19.	All other liabilities (balance)	3,032,823	41,246	3,074,069
20.	Total liabilities excluding Separate Accounts (Line 26)			223,214,830
21.	Separate Account liabilities (Line 27)	4,672,460,875		4,672,460,875
22.	Total liabilities (Line 28)		18,807,039	4,895,675,706
23.	Capital & surplus (Line 38)		XXX	232,723,900
24.	Total liabilities, capital & surplus (Line 39)	5,109,592,566	18,807,039	5,128,399,605
	NET CREDIT FOR CEDED REINSURANCE	-, -,,-	, , ,	-, ,,
25.	Contract reserves	21.049.905		
26.	Claim reserves			
27.	Policyholder dividends/reserves			
28.	Premium & annuity considerations received in advance			
29.	Liability for deposit-type contracts			
30.	Other contract liabilities			
31.	Reinsurance ceded assets			
32.	Other ceded reinsurance recoverables			
33.	Total ceded reinsurance recoverables			
34.	Premiums and considerations	, ,		
35.	Reinsurance in unauthorized companies			
	· ·			
36.	Funds held under reinsurance treaties with unauthorized reinsurers			
37.	Reinsurance with Certified Reinsurers			
38.	Funds held under reinsurance treaties with Certified Reinsurers	(11.515)		
39.	Other ceded reinsurance payables/offsets			
40.	Total ceded reinsurance payable/offsets	885,890		

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS (b)

Allocated by States and Territories Life Contracts Accident and Health Insurance Premiums Total Active Including Policy Membership Columns Life Insurance Annuity Other 2 through 5 Deposit-Type (b) 156,470 Premiums Consideration and Other Fees Considerations Contracts .. 156 , 470 ΑL Alaska 46 196 46.196 Arizona .642,638 .642,638 ΑZ 4. Arkansas 79,473 79,473 California 3.258.157 CA 3.258.157 6. 7. Colorado СО 618,042 618,042 Connecticut СТ .746.217 746.217 DE 9. District of Columbia DC 218 450 218 450 10. 1,675,622 1,675,622 FL 11 Georgia GΑ 351 845 351 845 12. Hawaii 147,017 147,017 ΗΙ 13. Idaho 76,602 76,602 ID 14. Illinois Ш .889.291 889.291 15. 301,381 IN 16. lowa .. IΑ .348.968 1.800 350.768 17. 200,978 200,978 KS 18. Kentucky 155 675 155.675 19. 248 . 437 Louisiana .248.437 LA 130,675 20. Maine 130,675 Maryland 21. MD .626.715 626.715 22 Massachusetts 714,595 714,595 MA 23. Michigan М 745 225 745 225 320,917 320,917 MN 25. Mississippi 185,580 185.580 Missouri . 26. 383.754 383.754 MO 27. Montana 197,667 197,667 МТ 28. Nebraska NF 271 942 1 800 273 742 182,871 182,871 NV 30. New Hampshire NH 114 263 114 263 31. New Jersey 1, 186,772 1, 186, 772 NJ 32 New Mexico 88 360 88 360 33. New York NY 132, 171 132, 171 34. 35. North Carolina 897,904 .897,904 North Dakota ND .. 7. 119 .7.119 960,500 960,500 OH 37 Oklahoma OK .547,318 547 318 Oregon .. 274,999 274,999 OR 1.454.410 39 Pennsylvania 1.454.410 Rhode Island 40. RI 130.847 130.847 41 South Carolina 488,747 488,747 42. South Dakota SD . 18.984 . 18.984 43. 521,611 521,611 ΤN 44. Texas. ТХ 1 952 455 1 952 455 45. .304,767 .304,767 UT 46. Vermont 58.784 1,200 59.984 Virginia . VA 1.066.660 1.066.660 48 Washington . 515,848 .515 .848 WA West Virginia 49. WV 164 973 164 973 50. Wisconsin 395,306 WI 51. Wyoming WY 20 381 20 381 52. American Samoa AS 53 Guam GÜ Puerto Rico . PR 55. U.S. Virgin Islands VI 56. Northern Mariana Islands .. MP N. CAN 58. Aggregate Other Alien .. ОТ XXX 35 519 35 519 59. 4,800 .25,333,691 XXX 25,328,891 90. Reporting entity contributions for employee benefits plans.

Dividends or refunds applied to purchase paid-up additions and annuities. 91. 92. Dividends or refunds applied to shorten endowmen or premium paying period......

Premium or annuity considerations waived under disability or other contract provisions..... XXX 93. XXX 404,475 404,475 94 Aggregate or other amounts not allocable by State XXX 95. Totals (Direct Business).. .25,733,366 4,800 .25,738,166 XXX 96. Plus reinsurance assumed. XXX 97 Totals (All Business).. 25,733,366 4,800 25,738,166 XXX 98 Less reinsurance ceded. 24 442 760 .24 .442 .760 Totals (All Business) less Reinsurance Ceded 1,290,606 4,800 99 XXX 1,295,406 DETAILS OF WRITE-INS 58001. ZZZ Other Alien XXX 35.519 35.519 58002 XXX 58003. XXX Summary of remaining write-ins for Line 58 from overflow pageTotals (Lines 58001 through 58003 plus XXX 58999. 58998)(Line 58 above) XXX 35,519 35,519 9401 XXX 9402 9403. XXX 9498. Summary of remaining write-ins for Line 94 from 9499.

⁹⁴ above) XXX

(a) Active Status Counts:

1. L - Licensed or Chartered - Licensed insurance carrier or domiciled RRG.. 4. Q - Qualified - Qualified or accredited reinsurer .50 5. N - None of the above - Not allowed to write business in the state.

^{2.} R - Registered - Non-domiciled RRGs. 3. E - Eligible - Reporting entities eligible or approved to write surplus lines in the state.....

⁽b) Explanation of basis of allocation by states, etc., of premiums and annuity considerations individual insurance premiums and annuity considerations - allocated to the states in which the policyholder resides (based on Company records when the premium is received). Group premiums - allocated consistent with the 500 lives rule

⁽c) Column 4 should balance with Exhibit 1, Lines 6.4, 10.4 and 16.4, Col. 6, or with Schedule H, Part 1, Line 1, indicate which: Exhibit 1, Lines 6.4, 10.4, and 16.4, Col. 6......

SCHEDULE T - PART 2

INTERSTATE COMPACT - EXHIBIT OF PREMIUMS WRITTEN

Allocated by States and Territories

Direct Business Only

			-	States and Territ	Direct Bus	siness Only		
			1	2	3 Disability	4 Long-Term	5	6
			Life	Annuities	Income	Care		
	States, Etc.		(Group and Individual)	(Group and Individual)	(Group and Individual)	(Group and Individual)	Deposit-Type Contracts	Totals
1.		AL	156,470	marviduar)	marviadary	marvidual)	Contracts	156,470
			46, 196					46 , 196
2.	Alaska							·
3.	Arizona		642,638					642,638
4.	Arkansas		79,473					79,473
5.		CA	3,258,157					3,258,157
6.	Colorado	CO	618,042					618,042
7.	Connecticut	CT	746,217					746,217
8.	Delaware	DE	68,794					68,794
9.	District of Columbia	DC	218,450					218,450
10.	Florida	FL	1,675,622					1,675,622
11.	Georgia	GA	351,845					351,845
12.	Hawaii	н	147,017					147,017
13.	ldaho	ID	76,602					76,602
14.	Illinois	IL	889,291					889,291
15.	Indiana	IN	301,381					301.381
16.	lowa		348,968	1.800				350,768
	Kansas		200,978	1,000				200,978
17.		-	155,675					
18.	Kentucky							155,675
19.	Louisiana		248,437					248,437
20.	Maine		130,675					130,675
21.	Maryland		626,715					626,715
22.	Massachusetts	MA	714,595					714,595
23.	Michigan	MI	745,225					745,225
24.	Minnesota	MN	320,917					320,917
25.	Mississippi	MS	185,580					185,580
26.	Missouri	МО	383,754					383,754
27.	Montana	MT	197,667					197,667
28.	Nebraska	NE	271,942	1,800				273,742
29.	Nevada	NV	182,871					182,871
30.	New Hampshire		114,263					, , ,
31.	New Jersey		1,186,772					1, 186,772
32.	New Mexico		88,360					88,360
	New York		132 , 171					
33.			897,904					
34.	North Carolina		,					· · · · · · · · · · · · · · · · · · ·
35.			7,119					·
36.	Ohio	-	960,500					960,500
37.	Oklahoma	-	547,318					547,318
38.	Oregon		274,999					274,999
39.	Pennsylvania	PA	1,454,410					1,454,410
40.	Rhode Island	RI	130,847					130,847
41.	South Carolina	SC	488,747					488,747
42.	South Dakota	SD	18,984					18,984
43.	Tennessee	TN	521,611					521,611
44.	Texas	TX	1,952,455					1,952,455
45.	Utah		304,767					
46.	Vermont		58,784	1,200				
47.	Virginia		1,066,660					· · · · · · · · · · · · · · · · · · ·
48.	Washington		515,848					515,848
49.	West Virginia							
			395,306					395,306
50.		WI						,
51.	Wyoming		20,381					,
52.	American Samoa							
53.	Guam							
54.	Puerto Rico	PR						
55.	U.S. Virgin Islands	VI						
56.	Northern Mariana Islands	MP						
57.	Canada	CAN						
58.	Aggregate Other Alien	ОТ	35,519					35,519
59.	Total		25,328,891	4,800				25,333,691
JJ.				, ,,,,,,,	ı	1	ı	

PART 1 – ORGANIZATIONAL CHART

Federal Tax ID NAIC Co Code State of Domicile

The following entities are general partner level or above of Massachusetts Mutual Life Insurance Company (Parent)

	·		
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Mezzanine Investor III, LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV GP, LLC*	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures US IV, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tow ID NAIC C- C-1-	State of Dominile
	Federal Tax ID NAIC Co Code	State of Domicile
Canatamainta Systeinakla Advisana II C	None	Delaware
Counterpointe Sustainable Advisors LLC CSA Intermediate Holdco LLC	None	Delaware Delaware
Counterpointe Trust Services LLC	None	Delaware
Counterpointe Trust Services LLC CP PACE LLC	None	Delaware
CSA Employee Services Company LLC	None	Delaware
Counterpointe Sustainable Real Estate II LLC	None	Delaware
Counterpointe Sustainable Real Estate II ELC Counterpointe Energy Solutions II LLC	None	Delaware
Counterpointe Energy Solutions (CA) II LLC	27-0105644	Delaware
Counterpointe Energy Solutions (CA) II ELC Counterpointe Energy Solutions (FL) II LLC	None	Delaware
Counterpointe Energy Solutions (IL) LLC	None	Delaware
Loop-Counterpointe PACE LLC	None	Delaware
Counterpointe Energy Services LLC	None	Delaware
JFIN Parent LLC	None	Delaware
Jefferies Finance LLC	27-0105644	Delaware
JFIN GP Adviser LLC	None	Delaware
JFIN Fund III LLC	None	Delaware
Jefferies Credit Partners LLC	None	Delaware
Apex Credit Partners LLC	None	Delaware
Jefferies Credit Management LLC	None	Delaware
JCM GP I LLC	None	Delaware
JCP Direct Lending CLO 2022 LLC	None	Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF	None	Luxembourg
Jefferies Credit Management Holdings LLC	None	Delaware
Senior Credit Investments, LLC	None	Delaware
JDLF GP (Europe) S.a.r.l	None	Luxembourg
JFAM GP LLC	None	Delaware
JFAM GP LP	None	Delaware
Jefferies Direct Lending Fund C LP	None	Delaware
Jefferies DLF C Holdings LLC	None	Delaware
Jefferies Direct Lending Fund C SPE LLC	None	Delaware
JDLF II GP LLC	None	Delaware
JDLF II GP LP	None	Delaware
Jefferies Direct Lending Fund II C LP	None	Delaware
Jefferies DLF 2 C Holdings LLC	None	Delaware
Jefferies Direct Lending Fund II C SPE LLC	None	Delaware
JCP Direct Lending CLO 2023-1 LLC	None	Delaware
JCP Direct Lending CLO 2023 Ltd.	None	Jersey Channel Islands
JCP GP LLC	None	Delaware
Jefferies Private Credit BDC Inc.	None	Maryland
Jefferies Senior Lending LLC	None	Delaware
Jefferies Credit Partners BDC Inc	None	Maryland
JFIN Revolver Holdings LLC	None	Delaware
JFIN Revolver Holdings II LLC	None	Delaware
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^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
JFIN Co-Issuer Corporation	None	Delaware
JFIN Europe GP, S.a.r.l.	None	Luxembourg
Jefferies Finance Europe, S.L.P.	None	Luxembourg
Jefferies Finance Europe, SCSp	None	Luxembourg
Jefferies Finance Business Credit LLC	None	Delaware
JFIN Business Credit Fund I LLC	None	Delaware
JFIN Funding 2021 LLC	None	Delaware
JFIN LC Fund LLC	None	Delaware
JFIN Revolver CLO 2017 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-III Ltd.	None	Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-III Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-IV LLC	None	Cayman Islands
JFIN Revolver Fund, L.P.	None	Delaware
JFIN Revolver Funding 2021 Ltd.	None	Delaware
JFIN Revolver Funding 2021-III Ltd.	None	Delaware
JFIN Revolver Funding 2021-IV Ltd.	None	Delaware
JFIN Revolver Funding 2022-I Ltd.	None	Bermuda
JFIN Revolver SPE1 2022 LLC	None	Delaware
JFIN Revolver SPE3 2022 LLC	None	Delaware
JFIN Revolver SPE4 2022 LLC	None	Delaware
JFIN Revolver SPE4 2022 Ltd.	None	Delaware
SFL Parkway Funding 2022 LLC	None	Delaware
JCP Private Loan Management GP LLC	None	Delaware
JCP Private Loan Management LP	None	Delaware
Beauty Brands Acquisition Holdings LLC	None	Delaware
Beauty Brands Acquisition LLC	None	Delaware
Beauty Brands Acquisition Intermediate LLC	None	Delaware
Forma Brands, LLC	None	Delaware
Apex Credit Holdings LLC	None	Delaware
JFIN CLO 2012 Ltd.	None	Cayman Islands
JFIN CLO 2013 Ltd.	None	Cayman Islands
JFIN CLO 2014 Ltd.	None	Cayman Islands
JFIN CLO 2014-II Ltd.	None	Cayman Islands
JFIN CLO 2015 Ltd.	None	Cayman Islands

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID	NAIC Co Code	State of Domicile
	100010111111111111111111111111111111111	11110 00 0040	State of Bonness
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
JFIN CLO 2017 II Ltd.	None		Cayman Islands
Tomorrow Parent, LLC	None		Delaware
Custom Ecology Holdco, LLC	None		Delaware
Glidepath Holdings Inc.	86-2294635		Delaware
MassMutual Ascend Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717	03312	Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
MM Ascend Life Investor Services, LLC	31-1395344	75001	Ohio
MM Ascend Mortgage Lending LLC	None		Ohio
Manhattan National Holding, LLC	26-3260520		Ohio
Manhattan National Life Insurance Company	45-0252531	67083	Ohio
MassMutual Mortgage Lending LLC	None	07003	Delaware
MM Copper Hill Road LLC	04-1590850		Delaware
MMV CTF I GP LLC	None		Delaware
MassMutual Ventures Climate Technology Fund I LP	None		Delaware
MM Direct Private Investment Holding LLC	None		Delaware
MM Direct Private Investments UK Limited	None		England & Wales
DPI-ACRES Capital LLC	None		Delaware
DPI-ACKES Capital ELC DPI-ARES Mortgage Lending LLC	None		Delaware
MM Investment Holding	None		Cayman Islands
MMIH Bond Holdings LLC	None		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2017-B	32-0546197		Delaware
MMAF Equipment Finance LLC 2017-B	83-3722640		Delaware
MMAF Equipment Finance LLC 2019-A MMAF Equipment Finance LLC 2019-B	None		Delaware
MMAF Equipment Finance LLC 2020–A	None		Delaware
MMAF Equipment Finance LLC 2020–B	None		Delaware
MMAF Equipment Finance LLC 2020-B MMAF Equipment Finance LLC 2021-A	None		Delaware
	None		Delaware
MMAF Equipment Finance LLC 2022–A MMAF Equipment Finance LLC 2022–B	None		Delaware
MMAF Equipment Finance LLC 2023-A	None 04-2443240		Delaware Massachusetts
MML Management Corporation			
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts Massachusetts
MassMutual Holding MSC, Inc.	04-3341767		
MML CM LLC	None		Delaware
Blueprint Income LLC	None		New York
Flourish Holding Company LLC	None		Delaware
Flourish Insurance Agency LLC	None		Delaware
Flourish Digital Assets LLC	None		Delaware
Flourish Financial LLC	None		Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
		<u></u>
Flourish Technologies LLC	None	Delaware
MML Distributors LLC*	04-3356880	Massachusetts
MML Investment Advisers, LLC	None	Delaware
MML Strategic Distributors, LLC	46-3238013	Delaware
The MassMutual Trust Company, FSB	06-1563535	Connecticut
MML Private Placement Investment Company I, LLC	04-1590850	Delaware
MML Private Equity Fund Investor LLC	04-1590850	Delaware
MM Private Equity Intercontinental LLC	04-1590850	Delaware
Pioneers Gate LLC	45-2738137	Delaware
MassMutual Holding LLC	04-2854319	Delaware
Fern Street LLC	37-1732913	Delaware
Low Carbon Energy Holding	None	United Kingdom
Sleeper Street LLC	None	Delaware
Teaktree Acquisition, LLC	None	Delaware
Haven Life Insurance Agency, LLC	46-2252944	Delaware
GASL Holdings LLC	None	Delaware
Barings Asset-Based Income Fund (US) LP*	None	Delaware
Barings Perpetual European Direct Lending Fund	None	Luxembourg
Barings Emerging Generation Fund II	88-0916548	Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017	Delaware
Barings Global Real Assets Fund LP*	82-3867745	Delaware
Barings Global Special Situations Credit Fund 3	None	Luxembourg
Barings North American Private Loan Fund LP	38-4010344	Delaware
MassMutual Assignment Company	06-1597528	North Carolina
MassMutual Capital Partners LLC	04-1590850	Delaware
Marco Hotel LLC	46-4255307	Delaware
HB Naples Golf Owner LLC	45-3623262	Delaware
RB Apartments LLC	82-4411267	Delaware
Intermodal Holding II LLC	None	Delaware
MassMutual Ventures Holding LLC	None	Delaware
Crane Venture Partners LLP	None	United Kingdom
MassMutual Ventures Management LLC	None	Delaware
MassMutual Ventures SEA Management Private Limited	None	Singapore
MMV UK/SEA Limited	None	England & Wales
MassMutual Ventures Southeast Asia I LLC	None	Delaware
MassMutual Ventures Southeast Asia II LLC	None	Delaware
MassMutual Ventures Southeast Asia III LLC	None	Delaware
MMV Digital I LLC	None	Cayman Islands
MassMutual Ventures UK LLC	None	Delaware
MassMutual Ventures US I LLC	47-1296410	Delaware
MassMutual Ventures US II LLC	None	Delaware
MassMutual Ventures US III LLC	None	Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	E-dlTID NAICC C 1	State of Demision
	Federal Tax ID NAIC Co Code	State of Domicile
MM Catalyst Fund LLC	None	Delaware
MM Catalyst Fund II LLC	None	Delaware
MM Rothesay Holdco US LLC	04-1590850	Delaware
Rothesay Limited	None	United Kingdom
Rothesay Mortgages Limited Rothesay Mortgages Limited	None	United Kingdom
Rothesay Life Plc	None	United Kingdom
Rothesay MA No.1 Limited	None	United Kingdom
Rothesay MA No.3 Limited	None	United Kingdom
Rothesay MA No.4 Limited	None	United Kingdom
LT Mortgage Finance Limited	None	United Kingdom
Rothesay Property Partnership 1 LLP	None	United Kingdom
Rothesay Foundation	None	United Kingdom
Rothesay Pensions Management Limited	None	United Kingdom
Rothesay Asset Management UK Limited	None	United Kingdom
Rothesay Asset Management Australia Pty Ltd	None	Australia
Rothesay Asset Management North America LLC	None	Delaware
MML Investors Services, LLC	04-1590850	Massachusetts
MML Insurance Agency, LLC	04-1590850	Massachusetts
MMLISI Financial Alliances, LLC	41-2011634	Delaware
LifeScore Labs, LLC	47-1466022	Massachusetts
MM Asset Management Holding LLC	45-4000072	Delaware
Barings LLC	51-0504477	Delaware
Baring Asset Management (Asia) Holdings Limited	98-0524271	Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465	Bermuda
Baring Asset Management (Asia) Limited	98-0457463	Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None	Korea
Barings Investment Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707	Taiwan ROC
Barings Singapore Pte. Ltd.	None	Singapore
Barings Japan Limited	98-0236449	Japan
Barings Australia Holding Company Pty Ltd	None	Australia
Barings Australia Pty Ltd	None	Australia
Barings Australia Real Estate Holdings Pty Ltd	None	Australia
Barings Australia Real Estate Pty Ltd	14-0045656	Australia
Barings Australia Property Partners Holdings Pty Ltd	98-0457456	Australia
Barings Australia Asset Management Pty Ltd	None	Australia
Barings Australia Property Partners Pty Ltd	None	Australia
Barings Australia Structured Finance Holdings Pty Ltd	None	Australia
Barings Australia Structured Finance Pty Ltd	None	Australia
Gryphon Capital Partners Pty Ltd	None	Australia
Gryphon Capital Management Pty Ltd	None	Australia
Gryphon Capital Investments Pty Ltd	None	Australia

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
Barings Finance LLC	80-0875475	Delaware
BCF Europe Funding Limited	None	Ireland
BCF Senior Funding I LLC'	None	Delaware
BCF Senior Funding I Designated Activity Company	None	Ireland
Barings Real Estate Acquisitions LLC	None	Delaware
Barings Securities LLC	04-3238351	Delaware
Barings Guernsey Limited	98-0437588	Guernsey
Barings Europe Limited	None	United Kingdom
Barings Asset Management Spain SL	None	Spain
Baring France SAS	None	France
Baring International Fund Managers (Ireland) Limited	None	Ireland
Barings GmbH	None	Germany
Barings Italy S.r.l.	None	Italy
Barings Sweden AB	None	Sweden
Barings Netherlands B.V.	None	Netherlands
Barings (U.K.) Limited	98-0432153	United Kingdom
Barings Switzerland Sårl	None	Switzerland
Baring Asset Management Limited	98-0241935	United Kingdom
Barings European Direct Lending 1 GP LLP	None	United Kingdom
Baring International Investment Limited	98-0457328	United Kingdom
Baring Fund Managers Limited	98-0457586	United Kingdom
BCGSS 2 GP LLP	None	United Kingdom
Baring Investment Services Limited	98-0457578	United Kingdom
Barings Core Fund Feeder I GP S.à.r.l.	None	Luxembourg
Barings Investment Fund (LUX) GP S.à r.l.	None	Luxembourg
Barings BME GP S.à.r.l.	None	United Kingdom
Barings GPC GP S.à.r.l.	None	Luxembourg
Barings European Core Property Fund GP Sà.r.l	None	United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None	Luxembourg
GPLF4(S) GP S.à r. 1	None	Luxembourg
PREIF Holdings Limited Partnership	None	United Kingdom
BMC Holdings DE LLC	None	Delaware
Barings Real Estate Advisers Inc.	04-3238351	Delaware
Remington L & W Holdings LLC	81-4065378	Delaware
Aland Royalty GP, LLC	None	Delaware
Alaska Future Fund GP, LLC	None	Delaware
BAI Funds SLP, LLC	None	Delaware
BAI GP, LLC	None	Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None	Delaware
Barings CMS Fund GP, LLC	None	Delaware
Barings Infiniti Fund Management LLC	None	Delaware
Barings Hotel Opportunity Venture I GP, LLC	None	Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

	E-dlTID NAICC C 1	C4-4
	Federal Tax ID NAIC Co Code	State of Domicile
Daving Investment Series III C	None	Dolowero
Baring Investment Series LLC Barings Emerging Generation Fund GP, LLC	None None	Delaware Delaware
	None None	
Barings Emerging Generation Fund GP II, LLC		Delaware
Barings ERS PE Emerging Manager III GP, LLC	None 04-1590850	Delaware
Barings Global Investment Funds (U.S.) Management LLC		Delaware
Barings CLO Investment Partners GP, LLC	None	Delaware
Barings Core Property Fund GP LLC	None	Delaware
Barings Direct Lending GP Ltd.	None	Cayman Islands
Barings Global Energy Infrastructure Advisors, LLC	None	Delaware
Barings Centre Street CLO Equity Partnership GP, LLC	None	Delaware
Barings Centre Street CLO Equity Partnership LP	None	Delaware
Barings Global Real Assets Fund GP, LLC	None	Delaware
Barings GPSF LLC	None	Delaware
Barings North American Private Loan Fund Management, LLC	None	Delaware
Barings North American Private Loan Fund II Management, LLC	None	Delaware
Barings North American Private Loan Fund III Management, LLC	None	Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None	Delaware
Barings - MM Revolver Fund GP LLC	None	Delaware
Barings Real Estate European Value Add Fund II Feeder LLC	None	Cayman Islands
BMT RE Debt Fund GP LLC	None	Delaware
Barings Small Business Fund LLC	84-5063008	Delaware
Barings Active Passive Equity Direct EAFE LLC	None	Delaware
Benton Street Advisors, Inc.	98-0536233	Cayman Islands
BHOVI Incentive LLC	None	Delaware
BIG Real Estate Fund GP LLC	None	Delaware
BIG Real Estate Incentive I LLC	None	Delaware
BIG Real Estate Incentive II LLC	None	Delaware
BRECS VII GP LLC	None	Delaware
BREDIF GP LLC	None	Delaware
CREF X GP LLC	None	Delaware
Great Lakes III GP, LLC	04-1590850	Delaware
Lake Jackson LLC	None	Delaware
Barings Emerging Markets Blended Fund I GP, LLC	None	Delaware
Mezzco III LLC	41-2280126	Delaware
Mezzo IV LLC	80-0920285	Delaware
Mezzco Australia II LLC	None	Delaware
RECSA-NY GP LLC	None	Delaware
Barings CLO 2022-I	98-1624360	Cayman Island
Barings CLO 2022-I	None	Cayman Island
Amherst Long Term Holdings, LLC	None	Delaware
Enroll Confidently, Inc.	None	Delaware
MassMutual International LLC	None 04-3313782	Delaware Delaware
MassMutual International LLC MassMutual Solutions LLC		Delaware Delaware
Massiviutual Solutions LLC	None	Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
Haven Technologies Asia Limited	None	Hong Kong
Yunfeng Financial Group Limited	None None	Hong Kong Hong Kong
MassMutual Asia Limited (SPV)	None	Hong Kong
MassMutual External Benefits Group LLC	None 27-3576835	Delaware
5301 Wisconsin Avenue Associates, LLC	27-33/6833 None	District of Columbia
5301 Wisconsin Avenue GP, LLC	None	Delaware
Other Affiliates & Funds:	04.1500050	D.1
100 w. 3rd Street LLC	04-1590850	Delaware
300 South Tryon Hotel LLC	82-2432216	Delaware
300 South Tryon LLC	04-1590850	Delaware
Almack Mezzanine Fund II Unleveraged LP	None	United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	82-3468147	Delaware
Barings Affordable Housing Mortgage Fund II LLC	61-1902329	Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663	Delaware
Barings Emerging Generation Fund II LP	None	Delaware
Barings Emerging Generation Fund, LP	84-3784245	Delaware
Barings Emerging Markets Corporate Bond Fund	None	Ireland
Barings Hotel Opportunity Venture I LP	None	Delaware
Barings Real Estate Debt Income Fund LP	85-3449260	Delaware
Barings Real Estate European Value Add I SCSp	None	Luxembourg
Barings Small Business Fund, L.P.	None	Delaware
Barings-MM Revolver Fund LP*	None	Delaware
Cornerstone Permanent Mortgage Fund LLC	45-2632610	Massachusetts
CREA Ridge Apartments, LLC	None	Delaware
London Office JV Holdings LLC	None	Delaware
Riverwalk MM Member, LLC	None	Delaware
Aland Royalty Holdings LP	None	Delaware
Chassis Acquisition Holding LLC	81-2244465	Delaware
CRA Aircraft Holding LLC	81-4258759	Delaware
EIP Holdings I, LLC	None	Delaware
Red Lake Ventures, LLC	46-5460309	Delaware
Validus Holding Company LLC	46-0687392	Delaware
VGS Acquisition Holding, LLC	None	Delaware
SBNP SIA II LLC	04-1590850	Delaware
SBNP SIA III LLC	None	Delaware
Barings European Real Estate Debt Income Fund	None	Luxembourg
Babson Capital Loan Strategies Fund, L.P.*	37-1506417	Delaware
Barings US High Yield Bond Fund	None	Ireland
Babson CLO Ltd. 2015-I	None	Cayman Islands
Babson CLO Ltd. 2015-II	None	Cayman Islands
Babson CLO Ltd. 2016-I	None	Cayman Islands
Babson CLO Ltd. 2016-II	None	Cayman Islands
Dausuii CLO Liu. 2010-11	INOTIC	Cayman islands

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
Barings CLO Ltd. 2017-I	None	Cayman Islands
Barings CLO 2018-III	None	Cayman Islands
Barings CLO 2018-IV	None	Cayman Islands
Barings CLO 2019-II	98-1473665	Cayman Islands
Barings CLO 2019-III	None	Cayman Islands
Barings CLO 2019-IV	None	Cayman Islands
Barings CLO 2020-I	None	Cayman Islands
Barings CLO 2020-II	None	Cayman Islands
Barings CLO 2020-III	None	Cayman Islands
Barings CLO 2020-IV	None	Cayman Islands
Barings CLO 2021-I	None	Cayman Islands
Barings CLO 2021-II	None	Cayman Islands
Barings CLO 2021-III	None	Cayman Islands
Babson Euro CLO 2014-I BV	None	Netherlands
Babson Euro CLO 2014-II BV	None	Netherlands
Babson Euro CLO 2015-I BV	None	Netherlands
Barings Euro CLO 2019-I	3603726OH	Ireland
Barings Euro CLO 2019-II	None	Ireland
Barings Euro CLO 2020-I DAC	None	Ireland
Barings Euro CLO 2021-I DAC	3715576VH	Ireland
Barings Euro CLO 2021-II DAC	3750378QH	Ireland
Barings Euro CLO 2021-III DAC	None	Ireland
Barings Euro CLO 2022-I DAC	None	Ireland
Barings Euro CLO 2023-II DAC	None	Ireland
Barings Global Em. Markets Equity Fund	82-5330194	North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384	Cayman Islands
Barings Global Special Situations Credit 4 Delaware*	85-1465973	Delaware
Barings Global Special Situations Credit 4 LUX*	98-1570693	Luxembourg
Barings Global Technology Equity Fund	None	Ireland
Barings Global Dividends Champion Fund	None	Ireland
Barings Europe Select Fund	None	Ireland
Barings Hotel Opportunity Venture	87-0977058	Connecticut
Barings Innovations & Growth Real Estate Fund*	86-3661023	Delaware
Barings Middle Market CLO 2017-I Ltd & LLC	None	Cayman Islands
Barings Middle Market CLO 2018-I	None	Cayman Islands
Barings Middle Market CLO 2019-I	None	Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604	Cayman Islands
Barings RE Credit Strategies VII LP	98-1332384	Delaware
Barings Target Yield Infrastructure Debt Fund	98-1567942	Luxembourg
Barings CLO Investment Partners LP	81-0841854	Delaware
Barings Euro Value Add II (BREEVA II)*	None	Luxembourg
Barings Transportation Fund LP*	87-1262754	Delaware
Braemar Energy Ventures I, L.P.*	None	Delaware

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	Federal Tax ID NAIC Co Code	State of Domicile
Barings European Core Property Fund SCSp*	None	Luxembourg
Barings European Private Loan Fund III A	46-5001122	Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932	New York
Benchmark 2018-B4	None	New York
Benchmark 2018-B8	38-4096530	New York
Barings Core Property Fund LP	20-5578089	Delaware
DPI Acres Capital SPV LLC	04-1590850	Delaware
DPI-ARES Mortgage Lending SPV, LLC	04-1590850	Delaware
E2E Affordable Housing Debt Fund LLC	None	Delaware
Great Lakes III. L.P.	37-1708623	Delaware
GIA EU Holdings - Emerson JV Sarl	98-1607033	Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011: 38-4041012	New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059	New York
Martello Re Limited	None	Bermuda
Miami Douglas Three MM, LLC	04-1590850	Delaware
MM BIG Peninsula Co-Invest Member LLC*	87-4021641	Delaware
MM Direct Private Investment Holding	04-1590850	Delaware
MM CM Holding LLC	None	Delaware
MM Debt Participations LLC	81-3000420	Delaware
MM MD1 Station Member LLC*	04-1590850	Delaware
MM MD2 Station Member LLC*	04-1590850	Delaware
MMV Climate Technology Fund GP*	04-1590850	Delaware
MM REED District Landco Member LLC	None	Delaware
MM Subline Borrower LLC	04-1590850	Delaware
Washington Pine LLC	04-1590850	Delaware
Ten Fan Pier Boulevard LLC	35-2553915	Delaware
Tower Square Capital Partners III, L.P.	41-2280127	Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129	Delaware
Trailside MM Member LLC*	04-1590850	Delaware
Washington Gateway Three LLC	32-0574045	Delaware
Washington Gateway Two LLC*	83-1325764	Delaware
MALIC Debt Participations LLC	None	Delaware
Barings Affiliates & Funds:		
Babson Capital Loan Strategies Master Fund LP	None	Cayman Islands
Barings China Aggregate Bond Private Securities Investment Fund	None	Peoples Republic of China
Barings Global High Yield Fund	47-3790192	Massachusetts
Great Lakes II LLC*	71-1018134	Delaware
Wood Creek Venture Fund LLC	04-1590850	Delaware
Barings Real Estate Affiliates & Funds:		
Barings California Mortgage Fund IV	None	California
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None	Luxembourg
Calgary Railway Holding LLC	82-2285211	Delaware
Cornbrook PRS Holdings LLC	82-3307907	Delaware

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	Federal Tax ID NAIC Co Code	State of Domicile
Cornerstone California Mortgage Fund I LLC	95-4207717	California
Cornerstone California Mortgage Fund II LLC	95-4207717	California
Cornerstone California Mortgage Fund III LLC	95-4207717	California
Cornerstone Fort Pierce Development, LLC*	56-2630592	Delaware
Cornerstone Permanent Mortgage Fund II LLC	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund III LLC	35-2531693	Massachusetts
Cornerstone Permanent Mortgage Fund IV LLC	61-1793735	Massachusetts
CREA/PPC Venture, LLC	20-0348173	Delaware
Danville Riverwalk Venture, LLC	82-2783393	Delaware
Euro Real Estate Holdings LLC	04-1590850	Delaware
Fan Pier Development LLC*	20-3347091	Delaware
GIA EU Holdings LLC	04-1590850	Delaware
Landmark Manchester Holdings LLC	81-5360103	Delaware
MMLIC Debt Participations LLC	13-1935920	Delaware
MM Brookhaven Member LLC	04-1590850	Delaware
MM Ascend Mtg. Lending LLC	04-1590850	Delaware
MM Kannapolis Industrial Member LLC*	04-1590850	Delaware
MM East South Crossing Member LLC	04-1590850	Delaware
MM Horizon Savannah Member LLC*	04-1590850	Delaware
MM National Self-Storage Program Member LLC	04-1590850	Delaware
MM 1400 E 4th Street Member LLC	04-1590850	Delaware
One Harbor Shore LLC*	80-0948028	Delaware
Paco France Logistics LLC	04-1590850	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware
Three PW Office Holding LLC	81-5273574	Delaware
Trailside MM Member II LLC	04-1590850	Delaware
Unna, Dortmund Holding LLC	82-3250684	Delaware
Washington Gateway Apartments Venture LLC*	45-5401109	Delaware
West 37th Street Hotel LLC*	88-3861481	Delaware
MassMutual Premier Funds:		
MassMutual Premier Main Street Fund	51-0529328	Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251	Massachusetts
MassMutual Select Funds:		
MassMutual Select Fundamental Growth Fund	04-3512593	Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935	Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954	Massachusetts
MassMutual Select Small Company Value Fund	04-3584140	Massachusetts
MassMutual Select T. Rowe Price Retirement 2005 Fund	82-3347422	Massachusetts
MassMutual Select T. Rowe Price Retirement 2010 Fund	82-3355639	Massachusetts
MassMutual Select T. Rowe Price Retirement 2015 Fund	82-3382389	Massachusetts
MassMutual Select T. Rowe Price Retirement 2020 Fund	82-3396442	Massachusetts
MassMutual Select T. Rowe Price Retirement 2025 Fund	82-3417420	Massachusetts
MassMutual Select T. Rowe Price Retirement 2030 Fund	82-3430358	Massachusetts

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID NAIC Co Code	State of Domicile
MassMutual Select T. Rowe Price Retirement 2035 Fund	82-3439837	Massachusetts
MassMutual Select T. Rowe Price Retirement 2040 Fund	82-3451779	Massachusetts
MassMutual Select T. Rowe Price Retirement 2045 Fund	82-3472295	Massachusetts
MassMutual Select T. Rowe Price Retirement 2050 Fund	82-3481715	Massachusetts
MassMutual Select T. Rowe Price Retirement 2055 Fund	82-3502011	Massachusetts
MassMutual Select T. Rowe Price Retirement 2060 Fund	82-3525148	Massachusetts
MassMutual Select T. Rowe Price Retirement Balanced Fund	82-3533944	Massachusetts
MML Series Investment Funds:		
MML Series International Equity Fund	46-4257056	Massachusetts
MML Series Investment Funds II:		
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
MML Series II Equity Rotation Fund	47-3544629	Massachusetts
MassMutual RetireSMART Funds:		
MassMutual RetireSMART 2035 Fund	27-1933380	Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769	Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207	Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235	Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155	Massachusetts
MassMutual 80/20 Allocation Fund	45-1618222	Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464	Massachusetts
MassMutual 40/60 Allocation Fund	45-1618262	Massachusetts
MassMutual 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual ishares 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual Balanced Fund	04-3212054	Massachusetts
MassMutual Blue Chip Growth Fund	04-3556992	Massachusetts
MassMutual Core Bond Fund	04-3277549	Massachusetts
MassMutual Disciplined Growth Fund	04-3539084	Massachusetts
MassMutual Disciplined Value Fund	04-3539083	Massachusetts
MassMutual Diversified Value Fund	01-0821120	Massachusetts
MassMutual Equity Opportunities Fund	04-3512590	Massachusetts
MassMutual Growth Opportunities Fund	04-3512589	Massachusetts
MassMutual Inflation-Protected and Income Fund	03-0532475	Massachusetts
MassMutual Mid Cap Growth Fund	04-3512596	Massachusetts
MassMutual Premier Diversified Bond Fund	04-3464165	Massachusetts
MassMutual RetireSMART by JPMorgan 2065 Fund	92-1441036	Massachusetts
MassMutual Select 80/20 Allocation Fund	45-1618222	Massachusetts
MassMutual Select Fundamental Value Fund	04-3584138	Massachusetts
MassMutual Select Overseas Fund	04-3557000	Massachusetts
MassMutual Select T Rowe Price Retirement 2065 Fund	92-1427882	Massachusetts
MassMutual Small Cap Growth Equity Fund	04-3464205	Massachusetts
MassMutual Small Cap Opportunities Fund	04-3424705	Massachusetts
MassMutual Small Cap Value Equity Fund	02-0769954	Massachusetts
MassMutual Strategic Bond Fund	26-0099965	Massachusetts

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

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						Name of Committee			Dalation						i
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Code		Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
Code	Oroup Name	Code	Number	ROOD	CIIC	international)		tion	Littly	Massachusetts Mutual Life Insurance	Other)	lage	Littly(les)/i elson(s)	(163/140)	
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0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			(MMLIC)	MA	UIP	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					i
0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company	CT	UDP	Company	Ownership	100 . 000	MMLIC		
0435	Massachusetts Mut Life Ins Co	70416	43-0581430				MML Bay State Life Insurance Company	CT	RE	C.M. Life Insurance Company	Ownership.	100.000	MMLIC		1
0000							CM Life Mortgage Lending LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC		i
0000							CML Mezzanine Investor III, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MAN IO		1
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. 0000							CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
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0000							CML Global Capabilities LLC	DE	NI A	Company	Ownership	100.000	MMLIC		1
							·			Massachusetts Mutual Life Insurance	· ·				i
. 0000							MM Global Capabilities LLC	DE	NIA	Company	Ownership	100.000	MML IC		i
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. 0000							MM Global Capabilities (Netherlands) B.V	NLD	NIA	MM Global Capabilities I LLC	Ownership	100.000	MMLIC		1
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. 0000							S.R.L	R0U	NI A	MM Global Capabilities (Netherlands) B.V.	Ownership	100 . 000	MMLIC		
										Massachusetts Mutual Life Insurance					i
0000							MM Global Capabilities II LLC	DE	NI A	Company	Ownership	100.000	MMLIC		1
										Massachusetts Mutual Life Insurance					1
0000							MM Global Capabilities III LLC	DE	NIA	Company	Ownership	100.000	MMLIC		i
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. 0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NIA	Company	Ownership	100.000	MMLIC		1
										Massachusetts Mutual Life Insurance					i
. 0000			. 04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					i
. 0000							MML Special Situations Investor LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					i
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		1
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	C.M. Life Insurance Company	Influence		MALIC		1
. 0000			47-5322979					DE	NIA		Management		MMI IC		1
			47-5322979				Timberland Forest Holding LLC			Wood Creek Capital Management LLC					1
. 0000							Lyme Adirondack Forest Company, LLC	DE	NIA	Timberland Forest Holding LLC	Ownership	100.000	MMLIC		
. 0000							Lyme Adirondack Timberlands I, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC		
. 0000	1						Lyme Adirondack Timberlands II, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC		1
0000			1				Lyme Adirondack Timber Sales, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership.	100.000	MMLIC		1
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0000			. 04-1590850				MassMutual Trad Private Equity LLC	DE	NI A	Insurance Road LLC	Ownership	100.000	MMLIC		1
0000			04-1590850				MassMutual Intellectual Property LLC	DE	NIA	Insurance Road LLC	Ownership	100.000	MMLIC		1
0000							Trad Investments LLC	DE	NIA	Insurance Road LLC	Ownership.	100.000	MMI IC		1
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										Massachusetts Mutual Life Insurance					1
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								l		Massachusetts Mutual Life Insurance	l				1
0000							MassMutual Ventures US IV GP, LLC	DE	NIA	Company	Ownership	99.000	MMLIC		
0000							MassMutual Ventures US IV GP, LLC	DE	NIA	Massachusetts Mutual Ascend	Ownership	1.000	MMLIC	ll	1
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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	, *
. 0000							MassMutual Ventures US IV, L.P	DE	NIA	MassMutual Ventures US IV GP, LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US IV LLC	DE	NIA	MassMutual Ventures US IV, L.P	Ownership	100.000	MMLIC		,
										Massachusetts Mutual Life Insurance					
. 0435							MassMutual Ventures Europe/APAC GP, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0435							MassMutual Ventures Europe/APAC I GP, L.P	CYM	NIA	MassMutual Ventures Europe/APAC I GP, LLC	Ownership	100.000	MMLIC		
										MassMutual Ventures Europe/APAC I GP, L.P.					
. 0435							MassMutual Ventures Europe/APAC I L.P	CYM	NIA		Ownership	100.000	MMLIC		
. 0435							Counterpointe Sustainable Advisors LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000							CSA Intermediate Holdco LLC	DE	NIA	Counterpointe Sustainable Advisors LLC	Ownership	100.000	I MALIC		
. 0000							Counterpointe Trust Services LLC	DE	NIA	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							CP PACE LLC	DE	NIA	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							CSA Employee Services Company LLC	DE	NIA	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Sustainable Real Estate II LLC	DE	NIA	COA TITTETINEUTATE HOTICO LLC	Owner Sirip	100.000	INVILIO		
. 0000							Counterpointe cuotamasio nour Estato II EES	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions II LLC	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions (CA) II LLC .	DE	NI A	Counterpointe Energy Solutions II LLC	Ownership	100.000	MMI IC		
. 0000							Counterpointe Energy Solutions (FL) II LLC .	DE	NI A	Counterpointe Energy Solutions II LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions (IL) LLC	DE	NI A	Counterpointe Energy Solutions II LLC	Ownership	100.000	MMLIC		
. 0000							Loop-Counterpointe PACE LLC	DE	NI A	Counterpointe Energy Solutions (IL) LLC	Ownership		MMLIC		
. 0000							Counterpointe Energy Services LLC	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		J
							counterpoints Energy convicts EES			Massachusetts Mutual Life Insurance				.	,
. 0000							JFIN Parent LLC	DE	NIA	Company	Ownership	100.000	MMLIC		,
. 0000			27-0105644				Jefferies Finance LLC	DE	NI A	JFIN Parent LLC	Ownership	50.000	MMLIC		1
. 0000							JFIN GP Adviser LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		[!]
. 0000							JFIN Fund III LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		[!]
. 0000							Jefferies Credit Partners LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		!
. 0000							Apex Credit Partners LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		!
. 0000							Jefferies Credit Management LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		ļ !
. 0000							JCM GP I LLC	DE	NI A	Jefferies Credit Management LLC	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2022 LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		!
1							Jefferies Direct Lending Europe SCSp SICAV-		l	l	I				1
. 0000							RAIF	LUX	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
. 0000							Jefferies Credit Management Holdings LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
. 0000							Senior Credit Investments, LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
. 0000							JDLF GP (Europe) S.a.r.l	LUX	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JFAM GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JFAM GP LP	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund C LP	DE	NIA	JFAM GP LP	Ownership	100.000	MMLIC		
. 0000							Jefferies DLF C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund C LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund C SPE LLC	DE	NIA	Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JDLF II GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JDLF II GP LP	DE	NIA	JDLF II GP LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund II C LP	DE	NIA	JDLF II GP LP	Ownership	100.000	MMLIC		
. 0000							Jefferies DLF 2 C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund II C LP	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund II C SPE LLC	DE	NIA	Jefferies DLF 2 C Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2023-1 LLC	DE		Jefferies Credit Partners LLC	Ownership		MMLIC		
. 0000							JCP Direct Lending CLO 2023 Ltd.	JEY	NIA NIA	JCP Direct Lending CLO 2023 Ltd Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
							JCP GP I LLC								
. 0000							Jefferies Private Credit BDC Inc	MD	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Jefferies Senior Lending LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Credit Partners BDC Inc	MD	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		l
. 0000							JFIN Revolver Holdings LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Holdings II LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Co-Issuer Corporation	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Europe GP, S.a.r.I.	LUX	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, S.L.P	LUX	NI A	JFIN Europe GP, S.a.r.I.	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, SCSp	LUX	NIA	JFIN Europe GP, S.a.r.I.	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Business Credit LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Business Credit Fund I LLC	DE	NIA	Jefferies Finance Business Credit LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Funding 2021 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN LC Fund LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-III Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2018 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2020 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2021-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2021-V Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-III Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-IV Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-IV LLC	CYM	NIA NIA	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Fund, L.P.		NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 Ltd.	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2021 III Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 IV Ltd.	BMU	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2022-I Ltd JFIN Revolver SPE1 2022 LLC	BMU	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE3 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE4 2022 LLC	DE	NIA	Jefferies Finance LLC	Owner Ship	100.000	MMLIC		
. 0000							JFIN Revolver SPE4 2022 Ltd.	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							SFL Parkway Funding 2022 LLC	DE	NIA	Jefferies Finance LLC	Owner Ship	100.000	MMLIC		
. 0000							JCP Private Loan Management GP LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JCP Private Loan Management LP	DE	NIA	JCP Private Loan Management GP LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition LLC	DE	NI A	Beauty Brands Acquisition Holdings LLC	Ownership.	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Intermediate LLC .	DE	NI A	Beauty Brands Acquisition LLC	Ownership	100.000	MMLIC		
. 0000							boddty brando hoquiottion intermediate EEO .			Beauty Brands Acquisition Intermediate LLC	omici dirip.		THE TO		
. 0000							Forma Brands, LLC	DE	NI A	, , , , , , , , , , , , , , , , , , , ,	Ownership	100.000	MMLIC		l l
. 0000							Apex Credit Holdings LLC	DE	NI A	JFIN Parent LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2012 Ltd.	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2013 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2014 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2014-II Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2015 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		1
. 0000		l					JFIN CLO 2015-II Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership	85.000	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							JFIN CLO 2016 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2017 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2017-II Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							Tomorrow Parent, LLC	DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		
. 0000							Custom Ecology Holdco, LLC	DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		
. 0000			86-2294635				Glidepath Holdings Inc.	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	63312	13-1935920				MassMutual Ascend Life Insurance Company	OH	NIA	Glidepath Holdings Inc.	Ownership	100.000	MMLIC		
. 0000	massachusetts mut Life ins co	63312	31-1422717				AAG Insurance Agency. LLC	KY	NIA	MassMutual Ascend Life Insurance Company	Owner ship	100.000	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	93661	31-1422717				Annuity Investors Life Insurance Company	OH	IA	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
. 0000	massacriusetts mut Erre mis ou	30001	31-1395344				MM Ascend Life Investor Services, LLC	0H	NIA	MassMutual Ascend Life Insurance Company .	Ownership.	100.000	MMI IC		
. 0000			01-1000044				MM Ascend Mortgage Lending LLC	OH	NIA	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
. 0000			26-3260520				Manhattan National Holding, LLC	0H	NIA	MassMutual Ascend Life Insurance Company .	Ownership.	100.000	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	67083	45-0252531				Manhattan National Life Insurance Company	OH	IA	Manhattan National Holding LLC	Ownership	100.000	MMLIC		
	massasinastro mar 2110 mo oo iiiiiiiii						manual tarrioral Erro modulation company in			Massachusetts Mutual Life Insurance					
. 0000							MassMutual Mortgage Lending LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				MM Copper Hill Road LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							INN. OTT I OD II O			Massachusetts Mutual Life Insurance		400.000	MMI IC		
. 0000							MMV CTF GP LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							massmutual ventures climate lechnology Fund	DE	NIA	MMV CTF I GP LLC	Ownership	100.000	MML IC		
. 0000							L	UL	NIA	Massachusetts Mutual Life Insurance	Owner strip		INVILIO		
. 0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MM Direct Private Investments UK Limited	GBR	NIA	MM Direct Private Investments Holding LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000							DPI-ACRES Capital LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							PD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Massachusetts Mutual Life Insurance		400.000			
. 0000							DPI-ARES Mortgage Lending LLC	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000							MM Investment Holding	CYM	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MMIH Bond Holdings LLC	DE	NIA	MM Investment Holding	Ownership	99.610	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400	MM_IC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MM Investment Holding	Ownership.	99.600	MMLIC		
. 0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NI A	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			83-3722640				MMAF Equipment Finance LLC 2019-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			l				MMAF Equipment Finance LLC 2019-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			l				MMAF Equipment Finance LLC 2020-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2020-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2022-A	DE	NI A	MassMutual Asset Finance LLC	Ownership	100.000	MML1C		
. 0000							MMAF Equipment Finance LLC 2022-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2023-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			04-2443240				MML Management Corporation	MA	NIA	MM Investment Holding	Ownership	100.000	MMLIC	YES	
. 0000			04-3548444				MassMutual International Holding MSC, Inc	MA	NIA	MML Management Corporation	Ownership	100.000	MMLIC	[
. 0000			04-3341767				MassMutual Holding MSC, Inc	MA	NI A	MML Management Corporation	Ownership	100.000	MMLIC		
0000							MML CM LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000							Blueprint Income LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							Flourish Holding Company LLC	NY	NIA	MML CM LLC	Ownership	100.000	MMLIC		
. 0000							Flourish Insurance Agency LLC	DE	NIA	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
. 0000							Flourish insurance Agency LLC	UE	NIA	riourish molding company LLC	Owner SUID	000.000	MMLIV		

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											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000	F						Flourish Digital Assets LLC	DE	NIA	Flourish Holding Company LLC	Ownership		MMLIC		
. 0000							Flourish Financial LLC	DE	NI A	Flourish Holding Company LLC	Ownership		MMLIC		
. 0000							Flourish Technologies LLC	DE	NIA	Flourish Holding Company LLC	Ownership		MM IC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3356880				MML Distributors LLC	MA	NIA	Company	Ownership	99.000	. MMLIC		
. 0000		l	04-3356880				MML Distributors LLC	MA	NI A	MassMutual Holding LLC	Ownership	1.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MML Investment Advisers, LLC	DE	NI A	Company	Ownership		. MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000			46-3238013				MML Strategic Distributors, LLC	DE	NI A	Company	Ownership		. MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			06-1563535	2881445			The MassMutual Trust Company, FSB	CT	NIA	Company	Ownership	100.000	. MMLIC	YES	
							MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance					
. 0000			04-1590850				LLC	DE	NI A	Company	Ownership	100.000	. MMLIC		
0000			04-1590850				M. D	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE		Company	0 m 10 m p	100.000	MMLIC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NI A	Baring Asset Management Limited	Management		. MMLIC		
. 0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NI A	Massachusetts Mutual Life Insurance Company	Ownership		MMLIC		
. 0000			04-1090600				IMM Frivate Equity intercontinental LLC	UE	NIA	Massachusetts Mutual Life Insurance	Owner Strip	100.000	. MWLIC		
. 0000			45-2738137				Pioneers Gate LLC	DE	NI A	Company	Ownership		MMLIC		
. 0000			45-2750157				Fromeers date LLC	DE	NIA	Massachusetts Mutual Life Insurance	Owner Strip	100.000	MWLIC		
. 0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership		MML IC	YES	
. 0000			37-1732913	2002010			Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
. 0000			37-1732313				Low Carbon Energy Holding	GBR	NIA	MassMutual Holding LLC	Ownership	49.000	MMLIC		
. 0000							Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NIA	Barings LLC	Influence		MMLIC		
. 0000			46-2252944				Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			82-2932156				GASL Holdings LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
. 0000			82-2932156					DE	NIA	Barings LLC	Board		MMLIC		
							GASL Holdings LLC						MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	10.800			
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	C.M. Life Insurance Company	Ownership/Influence		MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	Barings LLC	Management		. MMLIC		
0000			I		I		Barings Perpetual European Direct Lending	LUV	NII A	Massachusetts Mutual Life Insurance	0	05 000	MLIC		
. 0000							Parings Departured Functions Discrete Lond's	LUX	NI A	Company	Ownership/Influence	95.800	. MINILIC		
. 0000			1		1		Barings Perpetual European Direct Lending	LUX	NI A	Barings LLC	Influence		MMLIC		
. 0000							runu	LUX	NIA	Massachusetts Mutual Life Insurance	Intruence		. MWLIC		
. 0000			88-0916548				Barings Emerging Generation Fund II	DE	NI A	Company	Ownership/Influence	74 .300	. MMLIC		
. 0000			88-0916548				Barings Emerging Generation Fund II	DE	NIA	Barings LLC	Influence		MMLIC		
. 0000			00-0910040				Babson Capital Global Special Situation	UE	NIA	Dar rings LLC	Intruence		. MWLIC		
. 0000			98-1206017		1		Credit Fund 2	DE	NI A	MassMutual Holding LLC	Ownership/Influence	25.500	MMLIC		
. 5000			1200017				Babson Capital Global Special Situation	DL		massimutaar riorarrig LEO	omior only/ mirruonee	20.000			
. 0000		l	98-1206017		l		Credit Fund 2	DE	NI A	C.M. Life Insurance Company	Ownership	1.600	MMLIC	[
. 3000							Babson Capital Global Special Situation			o 2.10 mod and company	S				
. 0000		l	98-1206017		l		Credit Fund 2	DE	NIA	Barings LLC	Management		. MILIC		
. 0000		l	82-3867745				Barings Global Real Assets Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	39.600	MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	C.M. Life Insurance Company	Ownership.		MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			04-000//40				שמו ווועט עוטשמו ווכמו הסטכנס דעווע בד	∪⊏	NIM	Dai myo LLV	manayciiiciit		. mmL1v		

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											of Control	Control			1
											(Ownership,	is		Is an	1
						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent. Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
Code	Gloup Name	Code	Nullibel	NOOD	CIR	international)	Barings Global Special Situations Credit Fund	tion	Littly	(Name of Entity/Ferson)	Other)	lage	Littity(les)/Ferson(s)	(165/140)	
. 0000							2	LUX	NI A	MassMutual Holding LLC	Ownership/Influence	20.000	MMLIC		1
. 0000							Barings Global Special Situations Credit Fund			massimutual floruring LEO	owner strip/ trit rucitee		I I I I I I I I I I I I I I I I I I I		
. 0000							3	LUX	NIA	Barings LLC	Management		MMLIC		1
. 0000			38-4010344				Barings North American Private Loan Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	31.200	MMLIC		1
. 0000			38-4010344				Barings North American Private Loan Fund LP	DE	NI A	Baring Asset Management Limited	Management		MM_IC		1
. 0000			. 06-1597528				MassMutual Assignment Company	NC	NI A	MassMutual Holding LLC	Ownership		MM_IC		l I
. 0000			04-1590850				MassMutual Capital Partners LLC	DE	NI A	MassMutual Holding LLC	Ownership		MM_IC		l I
. 0000			46-4255307				Marco Hotel LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MM_IC		1
. 0000			45-3623262				HB Naples Golf Owner LLC	DE	NI A	MassMutual Holding LLC	Ownership		MMLIC		1
. 0000			82-4411267				RB Apartments LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		1
. 0000			02 4411207				Intermodal Holding II LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.000	MMLIC		
. 0000							MassMutual Ventures Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMI IC		
. 0000							MassMutual Ventures SEA Management Private	DL	NIA	massmutual ventures norumny LLC	owner strip		MWILTO		
. 0000							Limited	DE	NI A	MassMutual Ventures Management LLC	Ownership	100.000	MM_IC		1
. 0000							Limitou			MassMutual Ventures SEA Management Private	omici dirip				1
. 0000							MMV UK/SEA Limited	GBR	NI A	Limited	Ownership		MMLIC		1
. 0000							MassMutual Ventures Southeast Asia I LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		1
. 0000							MassMutual Ventures Southeast Asia II LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		1
. 0000							MassMutual Ventures Southeast Asia III LLC .	DE	NI A	MassMutual Ventures Holding LLC	Ownership		MMLIC		1
										MassMutual Ventures Southeast Asia III LLC					1
. 0000							MMV Digital I LLC	CYM	NIA		Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures UK LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000			47-1296410				MassMutual Ventures US I LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US II LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US III LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund II LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			. 04-1590850				MM Rothesay Holdco US LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			.				Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership	48.800	MMLIC		
. 0000			.				Rothesay Mortgages Limited	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		[]
. 0000							Rothesay Life Plc	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.1 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000			.				Rothesay MA No.3 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		[]
. 0000			.				Rothesay MA No.4 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		[
. 0000							LT Mortgage Finance Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		1
. 0000							Rothesay Property Partnership 1 LLP	GBR	NI A	Rothesay Life PLC	Ownership		MMLIC		1
. 0000							Rothesay Foundation	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership		MMLIC		
. 0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management Australia Pty Ltd	AUS	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
. 0000		l		l			Rothesay Asset Management North America LLC	DE	NI A	Rothesay Asset Management UK Limited	Ownership	100.000	MM_IC		l
. 0000			04-1590850				MML Investors Services. LLC	MA	NIA	MassMutual Holding LLC	Ownership		MMLIC		1
. 0000		1	04-1590850				MML Insurance Agency, LLC	MA	NI A	MML Investors Services. LLC	Ownership	100.000	MMLIC		1
. 0000		1	41-2011634	l			MMLISI Financial Alliances. LLC	DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
. 0000			47-1466022				LifeScore Labs, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			45-4000072				MM Asset Management Holding LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000				1							vi oiiik				

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											(Ownership,	is		ls an	1
						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1 1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage		(Yes/No)	*
. 0000	Group Hame	Couc	51-0504477	ROOD	Oil	international)	Barings LLC	MA	NIA	MassMutual Holding LLC	/	100.000	MMLIC	(103/140)	
. 0000			51-0504477					MA	NIA	Massmutual Holding LLC	Ownership	100.000	MINILIU		
0000			00 0504074				Baring Asset Management (Asia) Holdings	HKG	NIA	B : 110		100.000	188.10		1
. 0000			98-0524271					HNG	NI A	Barings LLC	Ownership	100.000	MINILIC		
							Baring International Fund Managers (Bermuda)			Baring Asset Management (Asia) Holdings		400.000			1
. 0000			98-0457465				Limited	BMU	NI A	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					1
. 0000			98-0457463				Baring Asset Management (Asia) Limited	H KG	NIA	Limited	Ownership	100.000	MMLIC		
. 0000							Baring Asset Management Korea Limited	K0R	NI A	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
							Barings Investment Management (Shanghai)								1 1
. 0000							Limited	HKG	NI A	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
							Barings Overseas Investment Fund Management			Barings Investment Management (Shanghai)					1
. 0000							(Shanghai) Limited	HKG	NI A	Limited	Ownership	100.000	MML1C		
										Baring Asset Management (Asia) Holdings					1
. 0000			98-0457707				Baring SICE (Taiwan) Limited	TWN	NI A	Limited	Ownership	100.000	MML1C		
										Baring Asset Management (Asia) Holdings					1
. 0000							Barings Singapore Pte. Ltd	SGP	NI A	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					1
. 0000			98-0236449				Barings Japan Limited	JPN	NI A	Limited	Ownership	100.000	MMLIC		l l
										Baring Asset Management (Asia) Holdings					1
. 0000		l					Barings Australia Holding Company Pty Ltd	AUS	NI A	Limited	Ownership	100.000	MMLIC		1 1
. 0000							Barings Australia Pty Ltd	AUS	NIA	Barings Australia Holding Company Pty Ltd	Ownership	100.000	MMLIC		1
							Barings Australia Real Estate Holdings Pty			Sai nigo naotra na noranig company i ty Eta					
. 0000							I th	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		1
. 0000										Barings Australia Real Estate Holdings Pty	Carrier of the particular of t		mm_10		1
. 0000			14-0045656				Barings Australia Real Estate Pty Ltd	AUS	NI A	I th	Ownership		MMLIC		1
. 0000			14-0040000				Barings Australia Property Partners Holdings			Ltu	Owner Sirip	100.000	WWILTO		
. 0000			98-0457456				Ptv Ltd	AUS	NIA	Barings Australia Real Estate Pty Ltd	Ownership	100.000	MM_IC		1
. 0000			30-0437430				1 ty Ltu			Barings Australia Property Partners	Owner Sirip	100.000	WWILTO		
. 0000							Barings Australia Asset Management Pty Ltd .	AUS	NIA	Holdings Pty Ltd	Ownership	100.000	MM_IC		1
. 0000							barings australia asset management Pty Ltu .	AU5	NIA	Barings Australia Property Partners	Owner Strip	100.000	WINILIO		
. 0000							Barings Australia Property Partners Pty Ltd	AUS	NIA	Holdings Ptv Ltd	Ownership	100.000	MM_IC		1
. 0000							Barings Australia Structured Finance Holdings		NIA	nordings Pty Ltd	Owner Strip	100.000	WINILIO		
0000									NII A	Danis 110	0	100 000	MML IC		1
. 0000							Pty Ltd	AUS	NIA	Barings LLC	Ownership	100.000	MINILIU		
0000			I				Barings Australia Structured Finance Pty Ltd	41.50		Barings Australia Structured Finance		400 000	IIII 10		1
. 0000								AUS	NIA	Holdings Pty Ltd	Ownership	100.000	MMLIC		
										Barings Australia Structured Finance Pty	<u></u>				1
. 0000							Gryphon Capital Partners Pty Ltd	AUS	NI A	Ltd	Ownership	100.000	MMLIC		[· · · · · ·]
. 0000							Gryphon Capital Management Pty Ltd	AUS	NIA	Gryphon Capital Partners Pty Ltd	Ownership	100.000	MMLIC		
. 0000							Gryphon Capital Investments Pty Ltd	AUS	NI A	Gryphon Capital Partners Pty Ltd	Ownership	100.000	MMLIC		
. 0000			80-0875475				Barings Finance LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC	l	[
. 0000		l	l	l			BCF Europe Funding Limited	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC	l	1" [
. 0000							BCF Senior Funding LLC	DE		Barings Finance LLC	Ownership.	100.000	MMLIC		
. 0000							BCF Senior Funding Designated Activity	UL		Dai mgo i manoc LLO	omior sittp	100.000	mmL1V		
. 0000			I				Company	IRL	NIA	Barings Finance LLC	Ownership	100.000	MM_IC		1
. 0000							Barings Real Estate Acquisitions LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
			04.0000053												[· · · · · ·]
. 0000			04-3238351				Barings Securities LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			98-0437588				Barings Guernsey Limited	GGY		Barings LLC	Ownership	100.000	MMLIC		[]
. 0000							Barings Europe Limited	GBR	NI A	Barings Guernsey Limited	Ownership	100.000	MMLIC		
. 0000							Barings Asset Management Spain SL	ESP	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		[]
. 0000			l	l			Baring France SAS	FRA	NI A	Barings Europe Limited	Ownership	100.000	MMLIC	 	
							Baring International Fund Managers (Ireland)								1
. 0000		I					Limited	IRI	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		1
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											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings GmbH	DEU	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Italy S.r.I	ITA	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Sweden AB	SWE	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Netherlands B.V.	NLD	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0432153				Barings (U.K.) Limited	GBR	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Switzerland Sàrl	CHE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0241935				Baring Asset Management Limited	GBR	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings European Direct Lending 1 GP LLP	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457328				Baring International Investment Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457586				Baring Fund Managers Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							BCGSS 2 GP LLP	GBR	NI A	Baring Fund Managers Limited	Ownership	100.000	MMLIC		
. 0000			98-0457578				Baring Investment Services Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Core Fund Feeder GP S.à.r.l	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Investment Fund (LUX) GP S.à. r.l .	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings BME GP S.à.r.I	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings GPC GP S.à. r.l	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings European Core Property Fund GP Sàrl	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Umbrella Fund (LUX) GP S.à.r.l	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							GPLF4(S) GP S.à r. I	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							PREIF Holdings Limited Partnership	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							BMC Holdings DE LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 04-3238351	3456895			Barings Real Estate Advisers Inc	CA	NIA	Barings LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NI A	Company	Ownership/Influence	19.900	MMLIC		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NI A	Barings LLC	Influence		MMLIC		
. 0000							Aland Royalty GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Alaska Future Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BAI Funds SLP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BAI GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Baring Asset-Based Income Fund (US) GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings CMS Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Infiniti Fund Management LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Hotel Opportunity Venture I GP, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000							Baring Investment Series LLC	DE	NIA	Barings LLC	Owner Strip	100.000	MMLIC	.	
. 0000							Barings Emerging Generation Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
. 0000							Barings Emerging Generation Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
. 0000							Barings ERS PE Emerging Manager III GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMI IC		
. 0000							Barings Global Investment Funds (U.S.)	DL		Dai mgs LLC	Owner Sirrp	100.000	MWLTC		
. 0000		l	04-1590850				Management LLC	DE	NI A	Barings LLC	Ownership		MMLIC	.	
. 0000		l					Barings CLO Investment Partners GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC	.	1
. 0000		l					Barings Core Property Fund GP LLC	DE	NI A	Barings LLC	Ownership		MMLIC	.	1
. 0000							Barings Direct Lending GP Ltd.	CYM	NI A	Barings LLC	Ownership	100.000	MMLIC		
• • • • • • • • • • • • • • • • • • •							Barings Global Energy Infrastructure	-							1
. 0000			.				Advisors, LLC	DE	NI A	Barings LLC	Ownership		MMLIC	.	
		1					Barings Centre Street CLO Equity Partnership								
. 0000							GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC	.	
000-		1					Barings Centre Street CLO Equity Partnership	25		Massachusetts Mutual Life Insurance		05			
. 0000			88-3792609				LP	DE	NI A	Company	Ownership/Influence	23.900	MMLIC		

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											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board.	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Craun		_	ID	Fodorol						Directly Controlled by			Liltimate Controlling		
Group	Our Mana	Company		Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	لـــــــــا
. 0000			88-3792609				Barings Centre Street CLO Equity Partnership	DE	NIA	Barings LLC	M		MMLIC		
			88-3/92609				LP	DE	NIA		Management	400 000	MMLIC		
. 0000							Barings Global Real Assets Fund GP, LLC			Barings LLC		100.000			
. 0000							Barings GPSF LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	. []	
0000							Barings North American Private Loan Fund	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Management, LLC	DE	NIA	Barings LLC	Ownersnip	100.000	MMLIC		
. 0000							Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings North American Private Loan Fund III	VE	N1A	Dai Higs LLC	Owner Strip	100.000	WWLIU	. []	
. 0000			1				Management, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	1)	
. 0000							Barings Global Special Situations Credit Fund	UE	NI M	Dai iligo LLO	Owner on the	100.000	INIMIL I U	. []	
. 0000							4 GP (Delaware) LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000						•••••	Barings - MM Revolver Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Real Estate European Value Add Fund	DL		Dai mgs LLO	Owner Strip.		WWL10		
. 0000					l		II Feeder LLC	CYM	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BMT RE Debt Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Diff Tie Book Faild of EEO	02		Massachusetts Mutual Life Insurance	owner our p				
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Company	Ownership	32 . 100	MMLIC		
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			98-0536233				Benton Street Advisors. Inc.	CYM	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000						***************************************	Barings Active Passive Equity Direct EAFE			Dut mgo LLO	omor on p		mmE10		
. 0000							LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	.	l
. 0000							BHOVI Incentive LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
. 0000							BIG Real Estate Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000						***************************************	BIG Real Estate Incentive I LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000						***************************************	BIG Real Estate Incentive II LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000						•••••	BRECS VII GP LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
. 0000							BREDIF GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							CREF X GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				Great Lakes III GP. LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
			04-1090600						NIA	Barings LLC			MMLIC		
. 0000							Lake Jackson LLCBarings Emerging Markets Blended Fund I GP,	DE	NI A	Dai ings LLC	Ownership	100.000	WINLIU	. []	
. 0000			1				LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	ı J	
. 0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership	99.300	MMLIC	. []	
. 0000			80-0920285				Mezzco IV LLC	DE	NIA	Barings LLC	Ownership	99.300	MMLIC	. []	
			00-0920285				Mezzco IV LLC Mezzco Australia II LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	- []	
. 0000							Mezzco Australia II LLC RECSA-NY GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	. []	
. 0000			98-1624360				Barings CLO 2022-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2022-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Anhanak Lana Tana Haldinan IIIO	DE	ALL A	Massachusetts Mutual Life Insurance	Ownership	24.500	MMLIC		
. 0000							Amherst Long Term Holdings, LLC	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownersnip	24.500	MMLIC		
. 0000							Enroll Confidently, Inc.	DE	NIA	Company	Ownership	25.000	MMLIC		
. 0000							EIII OI I COMITAEMETY, INC	VE	N1A	Massachusetts Mutual Life Insurance	Owner Strip	25.000	WWLIU	. []	
. 0000			04-3313782				MassMutual International LLC	DE	NIA	Company	Ownership	100.000	MMLIC	YES	
. 0000			04-0010/02				MassMutual Solutions LLC	DE	NIA	MassMutual International LLC	Owner Strip	100.000	MMLIC	150	
. 0000							Haven Technologies Asia Limited	DE	NIA	MassMutual International LLC	Ownership	100.000	MMLIC	. []	
									NIA		•			- []	
. 0000							Yunfeng Financial Group Limited	HKG		MassMutual International LLC	Ownership	24.900	MMLIC	- []	
. 0000							MassMutual Asia Limited (SPV)	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC	.	

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-			Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Craun			ID	Federal			Parent. Subsidiaries			Directly Controlled by		Percen-	Lillimate Controlling	quired?	
Group Code	Group Name	Company Code		RSSD	CIK	(U.S. or International)	Or Affiliates	Loca- tion	Reporting	Directly Controlled by (Name of Entity/Person)	Influence, Other)		Ultimate Controlling Entity(ies)/Person(s)	(Yes/No)	
Code	Group Name	Code	Number	RSSD	CIK	international)	Or Amiliates	tion	Entity	Massachusetts Mutual Life Insurance	Otner)	tage	Entity(les)/Person(s)	(Yes/No)	
. 0000			27-3576835				MassMutual External Benefits Group LLC	DE	NIA		Ownership		MMLIC		
. 0000			21-33/0033				massmutual External benefits Group LLC	DE	NIA	Company	owner snrp	100.000	WWLIG		
. 0000							5301 Wisconsin Avenue Associates, LLC	DC	NI A	Company	Ownership	99.000	MM_IC		
. 0000							3301 WISCONSTIL AVEILLE ASSOCIATES, LLC	bo	NIA	Massachusetts Mutual Life Insurance	Owner Strip		I WWILTO		
. 0000							5301 Wisconsin Avenue GP, LLC	DE	NI A	Company	Ownership		MMLIC		
							documentation and any also minimize the second seco	52		Massachusetts Mutual Life Insurance					
. 0000			04-1590850				100 w. 3rd Street LLC	DE	NI A	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-2432216				300 South Tryon Hotel LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				300 South Tryon LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership/Influence	72.900	MMLIC		
							Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance					
. 0000							LTC	DE	NI A	Company	Ownership	100.000	MMLIC		
							Barings Affordable Housing Mortgage Fund I				l., .				
. 0000							LLC	DE	NI A	Barings LLC	Management		MMLIC		
0000			61-1902329				Barings Affordable Housing Mortgage Fund II	חר	NII A	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000			61-1902329				Barings Affordable Housing Mortgage Fund II	DE	NI A	Company	Ownersnip	100.000	MMLIC		
. 0000			61-1902329				LLC	DE	NIA	Barings LLC	Management		MM_IC		
. 0000			01-1902329				Barings Affordable Housing Mortgage Fund III	UE	NI A	Massachusetts Mutual Life Insurance	management		WWLIG		
. 0000			85-3036663				IIC	DE	NI A	Company	Ownership		MMLIC		
. 0000			00 0000000			•••••	Barings Affordable Housing Mortgage Fund III	DL		Company	owner strip		WWL10		
. 0000			85-3036663				LLC	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Barings Emerging Generation Fund II LP	DE	NI A	Company	Ownership	39.700	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			84-3784245				Barings Emerging Generation Fund, LP	DE	NI A	Company	Ownership	38.000	MMLIC		
. 0000			84-3784245				Barings Emerging Generation Fund, LP	DE	NI A	Barings LLC	Management		MMLIC		
							Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance					
. 0000								IRL	NIA	Company	Ownership/Influence		MMLIC		
							Barings Emerging Markets Corporate Bond Fund								
. 0000								IRL	NIA	Barings LLC	Ownership	44.800	MMLIC		
		1								Massachusetts Mutual Life Insurance					
. 0000							Barings Hotel Opportunity Venture I LP	DE	NI A	Company	Ownership/Influence	65.000	MMLIC		
. 0000							Barings Hotel Opportunity Venture I LP	DE	NI A	Barings LLC	Management		MMLIC		
		1								Massachusetts Mutual Life Insurance		76			
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	Company	Ownership/Influence	76.600	MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	C.M. Life Insurance Company	Influence		MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	Barings LLC	Management		MMLIC		
		1					Barings Real Estate European Value Add I SCSp	an-		Massachusetts Mutual Life Insurance		46			
. 0000								GBR	NI A	Company	Ownership/Influence	42.100	MMLIC		
0000		1					Barings Real Estate European Value Add I SCSp	000	N: *			4 700	188 10		
. 0000							B . B . E	GBR	NIA	C.M. Life Insurance Company	Ownership	4.700	MMLIC		
		I		1			Barings Real Estate European Value Add I SCSp				l., .				
. 0000								GBR	NIA	Barings LLC	Management		MMLIC		
0000		1					Barings Coall Business Fund D	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	33.600	MMLIC		
. 0000							Barings Small Business Fund, L.P	₽Ε	NIA	Company	owner srrp	000	MWILTO		
. 0000		I		1			Barings-MM Revolver Fund LP	DE	NI A	Massachusetts Mutual Life Insurance	Ownership/Influence	86.000	MMLIC		
. 0000							Dai iliya-min nevolver Fund LF	∪⊏	NIA	oumpany	Owner Simp/ Intruence	00.000	WIWIL I U		

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March Corporation Corpor							Name of Securities			Relation-						
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25 25 25 25 25 25 25 25		Gloup Name	Code	Nullibel	KOOD	CIR	international)					,			(165/110)	
	. 0000							Barings-www Revolver Fund LP	DE	NIA		Ownership/influence	14.000	MMLIC		
Comment Comm	0000			45_2632610				Corporatona Parmanant Martagaa Fund II C	МА	NIA		Ownership	100 000	MM IC		
Color																
March	. 0000			45-2002010				Corner stone refinalient mortgage rund LLC	ma	NIA		management		WWLTC		
Leader Office 34 Behinding LLC Car N. M. Description (Line Tearners Care ratio 100.00 00.00 0.00	0000							CREA Ridge Apartments IIC	DF	NΙΔ		Ownershin	100 000	MMLIC:		
Note								onen mage riput tillorres, ees				Office of the contract of the		William I V		
Note	. 0000					l		London Office JV Holdings LLC	DE	NIA	Company	Ownership.		MMLIC		
								J								
	. 0000							Riverwalk MM Member, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
1,000 1,00	. 0000			83-0560183				Aland Royalty Holdings LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	26.690	MMLIC		
	. 0000			83-0560183				Aland Royalty Holdings LP	DE	NI A	Barings LLC	Management		MMLIC		
CR Aircraft Helding LLC								, , ,			Massachusetts Mutual Life Insurance					
000	. 0000			81-2244465				Chassis Acquisition Holding LLC	DE	NI A		Ownership/Influence	30.000	MMLIC		
Decomposition Decompositio																
EP Holdings LLC													40.000			
Description	. 0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA		Influence		MMLIC		
Description Ped Lake Ventures, LLC LE NJA Company Company Le Insurance Description Le Insurance Description Le Insurance Le Insuranc																
	. 0000							EIP Holdings I, LLC	DE	NI A		Ownership/Influence	29.000	MMLIC		
1000 1000												11111401100				
				46-0687392												
DOC Def-59889. SRP \$1.4 L.C C.E. M.A. Barrings LLC Conversity 100.000 Mal. C.E. M.A. Barrings LLC Conversity Conversity 100.000 Mal. C.E. M.A. Barrings LLC Conversity Convers												• •				
	1			. 04–1590850												
DOOD Darings European Real Estate Debt Income Fund LUX. NIA. Company Ounership/Influence 55,800 MALIC	. 0000								DE	NI A		Ownership	100.000	MMLIC		
Barings European Real Estate Debt Income Fund LUX NIA Barings EUC Influence MM IC								Barings European Real Estate Debt Income Fund								
DOOD Date	. 0000								LUX	NI A	Company	Ownership/Influence	55.800	MMLIC		
								Barings European Real Estate Debt Income Fund								
Dec. Name	. 0000								LUX	NI A	Barings LLC	Influence		MMLIC		
Description																
Description																
Name												The state of the s	3.800			
Description	. 0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA		Management		MMLIC		
Barings US High Yield Bond Fund	0000		1			[Devines IIC High Viold Dood Food	ID:	NIZ A		O-manahia /Infl	0.000	IMM IC		
Babson CLD Ltd. 2015- CYM. NIA. Barings LLC													0.200			
Description Babson CLD Ltd. 2015-1 CYM. NIA Barings LLC Influence. MM_LIC Sample LLC Sa																
Babson CLO Ltd. 2016- CYM. NIA. Barings LLC Influence. MMLIC CYM. NIA. Barings LLC CYM. CYM. NIA. Barings LLC CYM. CYM. NIA. Barings LLC CYM. CYM. CYM. NIA. Barings LLC CYM. CYM. CYM. CYM. NIA. Barings LLC CYM. CYM. CYM. CYM. NIA. Barings LLC CYM. CYM. CYM. CYM. CYM. CYM. CYM. CYM.																2
Babson CLO Ltd. 2016-II																3
Description																
Description																
0000 Barings CLO 2018-IV CYM. NIA. Barings LLC Influence. MMLIC MMIC MMLIC MMLIC MMLIC MMLIC MMIC MMLIC MMIC											5-					
0000 98-1473665 Barings CLO 2019-II CYM. NIA Barings LLC Influence. MM_LC																
0000 Barings CLO 2019-III CYM. NIA. Barings LLC Influence. MMLIC CYM. MIC CYM. MIC CYM. NIA. Barings LLC Influence. MMLIC CYM. MIC CYM. M																
0000 Barings CLO 2019-IV CYM. NIA. Barings LLC Influence. MMLIC				98-1473665							g					
0000 Barings CLO 2020-1 CYM. NIA. Barings LLC Influence. MMLIC																
0000 Barings LLC																
Regions CLO 2020-LLL CVM NIA Barings LLC Influence MM LC																
- Wall rigo CLV Edit rigo CLV	. 0000							Barings CLO 2020-III	CYM	NI A	Barings LLC	Influence		MMLIC		

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1	2	3	4	5	6	7	8	9	10	11	12 Type of Control (Ownership,	13 If Control is	14	15 Is an	16
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	_ to		Attorney-in-Fact,	Provide		Re-	
Group	O No	Company	ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	4
. 0000							Barings CLO 2020-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-11	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Babson Euro CLO 2014-1 BV	NLD	NIA	Barings LLC	Influence		MMLIC		
. 0000							Babson Euro CLO 2014-11 BV	NLD	NIA	Barings LLC	Influence		MM_IC		
. 0000							Babson Euro CLO 2015-1 BV	NLD	NI A	Barings LLC	Influence		MM_IC		
. 0000			36-037260H				Barings Euro CLO 2019-I BV	IRL	NIA	Barings LLC	Influence		MM_IC		
. 0000							Barings Euro CLO 2019-II BV	IRL	NIA	Barings LLC	Influence		MMLIC		.
. 0000							Barings Euro CLO 2020-I DAC	IRL	NI A	Barings LLC	Influence		MMLIC		.
. 0000			. 37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NI A	Barings LLC	Influence		MMLIC		.
. 0000							Barings Euro CLO 2021-II DAC	IRL	NIA	Barings LLC	Influence		MMLIC		.
. 0000							Barings Euro CLO 2021-III DAC	IRL	NIA	Barings LLC	Influence		MMLIC		.
. 0000							Barings Euro CLO 2022-I DAC	IRL	NI A	Barings LLC	Influence		MMLIC		.
. 0000							Barings Euro CLO 2023-II DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000			82-5330194				Barings Global Em. Markets Equity Fund	NC	NI A	Barings LLC	Management		MMLIC		
0000			98-1332384				Barings Global Energy Infrastructure Fund I	0)/14	A11.4	Massachusetts Mutual Life Insurance		99.200	MMLIC		
. 0000			98-1332384				Barings Global Special Situations Credit 4	CYM	NIA	Company	. Ownership/Influence	99.200	MMLIC		
. 0000							Delaware	DE	NI A	Company	Ownership	67.600	MM_IC		
. 0000							Barings Global Special Situations Credit 4			Ompariy	· · · · · · · · · · · · · · · · · · ·		mario		
. 0000							Delaware	DE	NI A	C.M. Life Insurance Company	Ownership	3.600	MMLIC		.
							Barings Global Special Situations Credit 4								
. 0000							Delaware	DE	NI A	Barings LLC	Management		MMLIC		
. 0000							Barings Global Special Situations Credit 4	LUX	NIA	Massachusetts Mutual Life Insurance Company	. Ownership	13.200	MMLIC		
. 0000							Barings Global Special Situations Credit 4	LUX	NIA	Company	. Uwnersnip	13.200	MMLIC		
. 0000							LUX	LUX	NI A	C.M. Life Insurance Company	Ownership	0.700	MM_IC		
							Barings Global Special Situations Credit 4			Total and Company IIII					
. 0000							LUX	LUX	NIA	Barings LLC	Management		MMLIC		.
. 0000							Barings Global Technology Equity Fund	IRL	NIA	Barings LLC	Ownership/Influence	71.620	MMLIC		.
. 0000							Barings Global Dividends Champion Fund	IRL	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings Europe Select Fund	IRL	NIA	Barings LLC	Management		MMLIC		
0000			07 0077050				D : 114 1 0 4 14 W 4	CT	A11.4	Massachusetts Mutual Life Insurance		50,000	MMLIC		
. 0000			. 87-0977058 . 87-0977058				Barings Hotel Opportunity Venture		NI A	Company	Ownership/Influence		MMLIC		
. 0000			87-0977058				Barings Hotel Opportunity Venture	CT	NI A	Barings LLC	Management		MMLIC		
. 0000			86-3661023				Dairings ininovations a drowth near Estate runc	DE	NI A	Company	Ownership	29.700	MMLIC		
. 0000			. 00-3001023				Barings Innovations & Growth Real Estate Fund		NIA	Company	. Owner strip	23.700	WWLTO		
. 0000			86-3661023				Darringo milotatrono a aronti moar Estato rano	DE	NI A	C.M. Life Insurance Company	Ownership	0.400	MM_IC		,
. 0000							Barings Middle Market CLO 2017-I Ltd & LLC .	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Middle Market CLO 2018-1	CYM	NI A	Barings LLC	Influence		MMLIC		1
. 0000							Barings Middle Market CLO 2019-I	CYM	NI A	Barings LLC	Influence		MMLIC		.[]
. 0000			98-1612604				Barings Middle Market CLO Ltd 2021-I	CYM	NI A	Barings LLC	Influence		MMLIC	[.[]
										Massachusetts Mutual Life Insurance				1	
. 0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Company	. Ownership/Influence	34.400	MMLIC	[[
. 0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Baring Asset Management Limited	Management		MMLIC	[
. 0000			. 98-1567942				Barings Target Yield Infrastructure Debt Fund	LUX	NIA	Massachusetts Mutual Life Insurance Company	Ownership	21.300	MMLIC		
. 0000			. 30-130/942					LŲX	NIA	Uuiipaiiy	. Towner Strip	∠1.300	IVIIVIL I U		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
Oodc	Group Hame	Couc	IVallibei	TOOD	Oil	international)	Barings Target Yield Infrastructure Debt Fund	tion	Littley	(Ivanie of Entity/i erson)	Other)	lage	Entity(ics)/i cracii(s)	(103/140)	
. 0000			98-1567942				Darings ranger mera minastructure best runa	LUX	NIA	Baring Asset Management Limited	Management		MMLIC		
. 0000			. 30-130/342						NIA	Massachusetts Mutual Life Insurance	mariagement		WWLTC		
. 0000			81-0841854				Barings CLO Investment Partners LP	DE	NI A	Company	Ownership/Influence	100.000	MML1C		
. 0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Barings LLC	Management		MMI IC		
. 0000							Dat ringo oco mivostinone i ar tiloro ci			Massachusetts Mutual Life Insurance	mariagomorit		William 10		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Company	Ownership/Influence	30.500	MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	C.M. Life Insurance Company	Ownership.	2.700	MML IC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	Barings LLC	Management		MMLIC		
. 0000			87-1262754				Barings Transportation Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	11.200	MMLIC		
. 0000			1202704				Darrings Transportation rund Li	DL		Massachusetts Mutual Life Insurance	owner sirrp/ initractice		WWLTO		
. 0000			87-1262754				Barings Transportation Fund LP	DE	NIA	Company	Ownership	8.200	MML IC		
							Survigo Transportation Fana E.			Massachusetts Mutual Life Insurance	oo.				
. 0000							Braemar Energy Ventures I, L.P.	DE	NI A	Company	Ownership/Influence	63.600	MMLIC		
. 0000							Braemar Energy Ventures I, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership	1.100	MMLIC		
. 0000							Braemar Energy Ventures I, L.P.	DE	NIA	Barings LLC	Management		MML1C		
. 0000							Barings European Core Property Fund SCSp	LUX	NI A	MassMutual Holding LLC	Ownership/Influence	9.000	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership.	0.600	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
. 0000							Darrings European core rroperty rund coop			Massachusetts Mutual Life Insurance	managomont		WWLTO		
. 0000			46-5001122				Barings European Private Loan Fund III A	LUX	NI A	Company	Ownership	44.600	MMLIC		
. 0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	NY	NI A	Barings LLC	Influence		MMI IC		
. 0000			10000002				Benchmark 2018-B4	NY	NIA	Barings LLC	Influence		MMI IC		
. 0000			38-4096530				Benchmark 2018-B8	NY	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 20-5578089				Barings Core Property Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	24.000	MMLIC		
. 0000			. 20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management	24.000	MMLIC		
. 0000			. 20-33/6069				ballings core ribperty rund Lr	DE	NIA	Massachusetts Mutual Life Insurance	Management		MINICIO		
. 0000			04-1590850				DPI Acres Capital SPV LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			10000000				bit horos supritur of t EEs			Massachusetts Mutual Life Insurance	owner our p		William 10		
. 0000			04-1590850				DPI-ARES Mortgage Lending SPV, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							3 3 3 3 3 7			Massachusetts Mutual Life Insurance					
. 0000							E2E Affordable Housing Debt Fund LLC	DE	NI A	Company	Ownership/Influence	100.000	MMLIC		
							-			Massachusetts Mutual Life Insurance	•				
. 0000			37-1708623				Great Lakes III, L.P	DE	NI A	Company	Ownership/Influence	41.500	MMLIC		
. 0000			37-1708623				Great Lakes III, L.P	DE	NI A	Barings LLC	Management		MMLIC		
		1								Massachusetts Mutual Life Insurance					1
. 0000			. 98–1607033				GIA EU Holdings - Emerson JV Sarl	LUX	NI A	Company	Ownership/Influence	100.000	MMLIC		
. 0000			98-1607033				GIA EU Holdings - Emerson JV Sarl	LUX	NI A	Barings LLC	Management		MMLIC		
							JPMCC Commercial Mortgage Securities Trust								
. 0000			. 38-4041011				2017–JP7	NY	NI A	Barings LLC	Influence		MMLIC		
2000							JPMDB Commercial Mortgage Securities Trust			L	Influence		MML IC		
. 0000			. 38-4032059				2017-C5	NY	NI A	Barings LLC	Influence		MMLIC		
. 0000]		1			Martello Re Limited	BMU	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	27.450	MMLIC		1
. 0000							marterro ne Limiteo	BWU	NIA	Massachusetts Mutual Life Insurance	ownership/influence	27.400	INVILIO		
. 0000			04-1590850				Miami Douglas Three MM, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000		l	04-1090000				miami Douglas IIIIee mm, LLC	∪⊑	NIA	Massachusetts Mutual Life Insurance	owner anth	100.000	IWINLIU	[
. 0000]	87-4021641	1			MM BIG Peninsula Co-Invest Member LLC	DE	NI A	Company	Ownership	27.000	MMLIC		1
. 0000		l	87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
. 0000			7021041				min Dia ronnigura do nivest member LLC			Massachusetts Mutual Life Insurance	omior dirip	0.000	mmLIV		
. 0000		l	04-1590850	1			MM Direct Private Invetment Holding	DE	NI A	Company	Ownership	100.000	MMLIC		
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Manual	Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
1		•					,			Ĭ	Massachusetts Mutual Life Insurance	,	Ŭ	, , ,	1	
1	. 0000							MM CM Holding LLC	DE	NI A	Company	Ownership		MMLIC		
March Marc								,			Massachusetts Mutual Life Insurance	·				
100 100	. 0000			81-3000420				MM Debt Participations LLC	DE	NI A	Company	Ownership/Influence		MMLIC		
December December	. 0000			81-3000420					DE	NI A	Barings LLC	Management		MMLIC		
March Marc											Massachusetts Mutual Life Insurance					
0.000 0.59806 0.5980	. 0000			04-1590850				MM MD1 Station Member LLC	DE	NI A		Ownership	47.000	MMLIC		
Manual Control Manu	1			04-1590850						NΙΔ		Ownership	3 100	MMLIC		
March Marc				01 1000000			***************************************	min mor otation mondor LEG				omior on p	0. 100			
March Marc	0000			04-1590850				MM MD2 Station Member IIC	DF	NIA		Ownership	47 000	MMLIC		
March Marc																
	. 0000			04 1000000				MINI MIDE GRACION MCMDEL LEG	DL			omici sirip	0. 100	I I I I I I I I I I I I I I I I I I I		
March Marc	0000			04-1590850				MMV Climate Technology Fund GP	DE	NΙΔ		Ownership	ga nnn	MMLIC		
March Marc																
W RED DIFFIC Lands Refer LLC	. 0000			. 04-1590650				minv Crimate reciliorogy Fund dr	UE	NIA		owner strip	1.000	WWLTG		
	0000							MM PEED District Landag Mamber LLC	ne ne	NII A		Ownership	100 000	MML IC		
0.000 0.150860 0.000 0	. 0000							MMI NEED DISTITUT LANGED MEMBER LLC	UE	NIA		owner strip	100.000	MWLTC		
Description	0000			04 1500050				MM Subling Parrower II C	nc	NII A		Ownership	100,000	MAIL LC		
0.000 0.458650 1	. 0000			. 04-1590650				MMI SUDITIVE BOTTOWET LLC	UE	NIA		owner strip	100.000	MWLTC		
	0000			04 1500050				Washington Pine LLC	nc	NII A		Ownership	100,000	MAIL LC		
	. 0000			. 04-1590650				Washington Fine LLC	UE	NIA		owner strip	100.000	WWLTG		
	0000			25 2552015				Top Fop Dior Paulovard II C	ne ne	NII A		Ownership	100 000	MML IC		
												The state of the s				
Name	1															
	. 0000			41-2280127				lower Square Capital Partners III, L.P	DE	NI A		Ownership/Influence	17.600	MMLIC		
	0000			44 0000400				T 0 0	DE	NII A		0hi /l-fl	100 000	188 10		
Note																
Oncolumn	. 0000			41-2280129				lower Square Capital Partners IIIA, L.P	DE	NI A		management		MMLIC		
	0000			04 4500050				Tarilaida MU Manhan II O	DE	MILA		0hi	00 070	188 10		
Name																
1000 1000	. 0000			. 04-1590850				Irailside MM Member LLC	DE	NI A		Ownership	7.380	MMLIC		
	0000			00 4005704				W 1 . 4 O 4 T 110	DE			0 1:	05 000	188 10		
Name																
	. 0000			83-1325764				wasnington Gateway Iwo LLC	DĒ	NI A		Uwnership	4.200	MMLIC		
MALIC Debt Participations LLC	0000		1	00 0574045				Washington October The U.O.	חר	NI A		0	05 000	188 10		
MALIC Debt Participations LLC	. 0000		·····	32-05/4045				wasnington Gateway inree LLC	∪೬	NI A		Uwnership	95.230	MWLIC		
Babson Capital Loan Strategies Master Fund LP Barings Clina Aggregate Bond Private Securities Investment Fund Securities Investment Fund	0000		1					IMI IO Daha Danata and III O	חר	NI A		0	100 000	188 10		
0000 0000	. 0000								∪E	NI A	Company	Uwnership	100.000	MWLIC		
Barings China Aggregate Bond Private Securities Investment Fund Secu	0000		1					babson capital Loan Strategies Master Fund LF	0)(1)					144 10		
0000 0000	. 0000								CYM	NIA	Barings LLC	Management		MMLIC		
0000 0000									0.11.1							
O000 O000 O110																
0000 0000	. 0000			47–3790192				Barings Global High Yield Fund	MA	NI A		Management		MMLIC		
0000 0000	1		1	L												
. 0000																
. 0000	. 0000			71–1018134				Great Lakes II LLC	DE	NI A		Ownership	0.980	MMLIC		
Barings California Mortgage Fund IV			1													
. 0000 Barings California Mortgage Fund IV CA NIA. Company Ownership	. 0000			04-1590850				Wood Creek Venture Fund LLC	DE	NI A		Ownership	40.000	MMLIC		
Massachusetts Mutual Life Insurance			1													
	. 0000							Barings California Mortgage Fund IV	CA	NI A		Ownership	100.000	MMLIC		
.0000 Barings Umbrella Fund LUX SCSp SICAV RAIF LUX NIA Company Ownership			I		1											
	. 0000	<u></u>						Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Company	Ownership	24.959	MMLIC		

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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	C.M. Life Insurance Company	Ownership	2.300	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	Company	Ownership	90.000	. MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NI A	Company	Ownership	100.000	MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			95-4207717				Cornerstone California Mortgage Fund I LLC	CA	NI A	Company	Ownership	100.000	MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			95-4207717				Cornerstone California Mortgage Fund II LLC	CA	NI A	Company	Ownership	100.000	MMLIC		'
							Cornerstone California Mortgage Fund III LLC			Massachusetts Mutual Life Insurance					1
. 0000			95-4207717					CA	NI A	Company	Ownership	100.000	MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	Company	Ownership	90.000	. MMLIC		'
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.900	MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Company	Ownership	100.000	MMLIC		'
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Barings LLC	Management		MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000							Cornerstone Permanent Mortgage Fund III LLC	MA	NI A	Company	Ownership	100.000	MML1C		'
										Massachusetts Mutual Life Insurance					1
. 0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			20-0348173				CREA/PPC Venture LLC	DE	NI A	Company	Ownership	28.520	. MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NI A	Company	Ownership	94.400	. MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			04-1590850				Euro Real Estate Holdings LLC	DE	NI A	Company	Ownership	50.000	MMLIC		'
										Massachusetts Mutual Life Insurance					1
. 0000			20-3347091				Fan Pier Development LLC	DE	NI A	Company	Ownership	65.000	. MMLIC		'
. 0000			20-3347091				Fan Pier Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.850	MMLIC		'
0000			04 4500050]				DE		Massachusetts Mutual Life Insurance		400 000			1
. 0000			04-1590850				GIA EU Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			04 5000400					DE		Massachusetts Mutual Life Insurance		400 000	IIII 10	1	
. 0000			81-5360103				Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			13-1935920				MMLIC Debt Participations LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	100.000	MMLIC		
0000			04 4500050]			W 5 11 11 5	DE		Massachusetts Mutual Life Insurance		05 000			1
. 0000			04-1590850				MM Brookhaven Member LLC	DE	NI A	Company	Ownership	95.000	. MMLIC		
0000			04 4500050				MI Assert May Londing II O	DE	NIA	Massachusetts Mutual Life Insurance	0	100 000	IMM 10		1
. 0000			04-1590850				MM Ascend Mtg. Lending LLC	UE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
0000			04 4500050				MI Kanasasia Indonésia I Manhan II O	DE	NI A		0	82.720	188 10		1
. 0000			04-1590850				MM Kannapolis Industrial Member LLC			Company	Ownership		MMLIC		'
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Massachusetts Mutual Ascend	Ownership	12.280	MMLIC		'
. 0000			04-1590850]			MIL Fact Courth Crossing Market 110	DE	NIA	Massachusetts Mutual Life Insurance	O	95.000	MMLIC		
. 0000			U4-109U85U				MM East South Crossing Member LLC	∪⊑	NI A	Company	Ownership	95.000	. MIVIL I U		
. 0000			04-1590850]			MM Harizon Cayannah Member 11.0	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	95.000	MMLIC		
							MM Horizon Savannah Member LLC			Company	Ownership				
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
. 0000			04-1590850				MM National Self-Storage Program Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	98.000	. MMLIC		
. 0000			04-1590850				MM 1400 E 4th Street Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	96.000	MMLIC		
0000			00 0040000]				DE		Massachusetts Mutual Life Insurance		04.000			1
. 0000			80-0948028				One Harbor Shore LLC	DE	NI A	Company	Ownership	94.990	. MMLIC		
. 0000			80-0948028				One Harbor Shore LLC	DE	NI A	C.M. Life Insurance Company	Ownership	4.010	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
						,				Massachusetts Mutual Life Insurance	,		1.7(1.1 / 1.1 / 1.7	/	
. 0000			04-1590850				Paco France Logistics LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							Salomon Brothers Commercial Mortgage Trust								
. 0000							2001-MM	DE	NI A	Barings Real Estate Advisers LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			81-5273574				Three PW Office Holding LLC	DE	NI A	Company	Ownership	95.100	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Trailside MM Member II LLC	DE	NI A	Company	Ownership	47 . 100	MMLIC		
0000			00 0050004					DE		Massachusetts Mutual Life Insurance		400,000	188 10		
. 0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	Company	Ownership	95.440	MML IC		
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership	4.560	MMI IC		
. 0000			45-5401109				washington dateway Apartments venture LLC	UE	NIA	Massachusetts Mutual Life Insurance	Owner Sirip	4.300	MWILTO		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NI A	Company	Ownership	93.800	MM_IC		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.200	MMLIC		
							WOOL OVER SCHOOL FISCH EED			Massachusetts Mutual Life Insurance	owner our p	0.200			
. 0000			51-0529328		0000927972	00	MassMutual Premier Main Street Fund	MA	NI A	Company	Ownership	89.370	MMLIC		
						• •	MassMutual Premier Strategic Emerging Markets			Massachusetts Mutual Life Insurance					
. 0000			26-3229251		0000927972	00	Fund	MA	NI A	Company	Ownership	60.573	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3512593		0000916053	00	MassMutual Select Fundamental Growth Fund	MA	NIA	Company	Ownership	5.210	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			42-1710935		0000916053	00	MassMutual Select Mid-Cap Value Fund	MA	NI A	Company	Ownership	29.861	MMLIC		
0000			02-0769954		0000916053	00	MassMutual Select Small Capital Value Equity	MA	ALL A	Massachusetts Mutual Life Insurance	Influence		MMLIC		
. 0000			02-0769954		0000916053	00	runa	MA	NIA	Company Massachusetts Mutual Life Insurance	Intluence		MWLIC		
. 0000			04-3584140		0000916053	00	MassMutual Select Small Company Value Fund .	MA	NI A	Company	Ownership	18.034	MM_IC		
. 0000			04 0004140		0000010000	ou	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	Owner Strip		I I I I I I I I I I I I I I I I I I I		
. 0000			82-3347422		0000916053	00	2005 Fund	MA	NI A	Company	Ownership	5.299	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3355639		0000916053	00	2010 Fund	MA	NI A	Company	Influence		MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3382389		0000916053	00	2015 Fund	MA	NI A	Company	Influence		MMLIC		
0000			82-3396442		0000916053	00	MassMutual Select T. Rowe Price Retirement	111	NI A	Massachusetts Mutual Life Insurance	la flores -		MM IC		
. 0000			82-3396442		0000916053	UQ	2020 Fund	MA	NIA	Company	Influence		MMLIC		
. 0000			82-3417420		0000916053	00	2025 Fund	MA	NIA	Company	Influence		MMLIC		
. 0000			SE 041/420			V4	MassMutual Select T. Rowe Price Retirement	וווח		Massachusetts Mutual Life Insurance	11111401100		mmL1V		
. 0000			82-3430358		0000916053	00	2030 Fund	MA	NI A	Company	Influence		MMLIC		
				1			MassMutual Select T. Rowe Price Retirement		1	Massachusetts Mutual Life Insurance					-
. 0000			82-3439837		0000916053	00	2035 Fund	MA	NI A	Company	Influence		MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3451779		0000916053	00	2040 Fund	MA	NI A	Company	Influence		MMLIC		
0000			00 0470005		0000040050	00	MassMutual Select T. Rowe Price Retirement	111	NI A	Massachusetts Mutual Life Insurance	la flores -		M# 10		
. 0000			82-3472295		0000916053	UQ	2045 Fund	MA	NIA	Company Massachusetts Mutual Life Insurance	Influence		MMLIC		
. 0000			82-3481715		0000916053	00	2050 Fund	MA	NIA	Company	Influence		MML IC		
. 0000			02 U701/10			V4	MassMutual Select T. Rowe Price Retirement	m/\		Massachusetts Mutual Life Insurance	THE GOTTON		The state of the s		
. 0000			82-3502011	l	0000916053	00	2055 Fund	MA	NIA	Company	Influence		MMLIC		
				1			MassMutual Select T. Rowe Price Retirement		1	Massachusetts Mutual Life Insurance					-
. 0000			82-3525148		0000916053	00	2060 Fund	MA	NIA	Company	Influence	<u></u>	MMLIC		

Type of Control (Ownership, is Board, Ownership, SC) Name of Securities Exchange if Publicly Traded Names of Company ID Federal (U.S. or Parent, Subsidiaries Loca-Reporting Directly Controlled by If Board, Ownership, SC) Relation-Ship to Management, Ship Attorney-in-Fact, Provide Reporting Directly Controlled by Influence, Percen-Ultimate Controlling quinters of the controlling of the controlling quinters of the contro						11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ - DL A	L OF INSURANC	'	IOLD	ING COMITAIN I	SISILIVI				
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March Marc	0000			82-3533944		0000916053	0Q	Balanced Fund	MA	NIA		Influence		MMLIC		
March Marc	0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence	100.000	MMLIC		
No. No. No. No. No. No. No. No. No. No.	0000			47_3520636				MMI Series II Dynamic Bond Fund	МΔ	NΙΔ		Influence		MMLIC		i
											Massachusetts Mutual Life Insurance					1
	0000			47-3544629				MML Series II Equity Rotation Fund	MA	NIA		Ownership	95.822	MML1C		
	0000			27-1933389		0000916053	00	MassMutual RetireSMART 2035 Fund	MA	NIA	Company	Ownership	3.322	MMLIC		
0000	0000			27-1932769		0000916053	0Q	MassMutual RetireSMART 2045 Fund	MA	NIA		Ownership	7.445	MMLIC		l
	0000			46 2200207		0000016052	00	Macablutual PatiraCNAPT 2055 Fund	MA	NIA		Ownership	21 026	MMI IC		i
							0Q				Massachusetts Mutual Life Insurance					
0.00	0000			47-5326235		0000916053	0Q	MassMutual RetireSMART 2060 Fund	MA	NIA		Ownership	37.927	MMLIC		
	0000			45-1618155		0000916053	00	MassMutual 20/80 Allocation Fund	MA	NIA	Company	Influence	100.000	MMLIC		
0000 03-0532464 000916053 00 Masilutual RetiresWaff in Retirement Fund M.M. NIA Company Massachusetts Mutual Life Insurance 100.000 MALIC Massachusetts Mutual Life Insurance	0000			45-1618222		0000916053	0Q	MassMutual 80/20 Allocation Fund	MA	NIA		Ownership	39.767	MMLIC		
0000 0.000 0.0000 0.00000000000	0000			02 0523464		0000016052	00	Macabutual PatiraCMADT In Patirament Fund	MA	NIA		Ownership	0 000	MMI IC		i
0,000							0Q									
	0000			45-1618262		0000916053	0Q	MassMutual 40/60 Allocation Fund	MA	NIA		Influence	100.000	MMLIC		
0000	0000			45-1618046		0000916053	00	MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
0000 04-3212054 0000916053 00 MassMutual Balanced Fund MA. NIA. Company Ownership 100.000 MMLIC	0000			45-1618046		0000916053	0Q	MassMutual ishares 60/40 Allocation Fund	MA	NIA		Ownership	65.759	MMLIC		
0000	0000			04-3212054		0000016053	00	MaccMutual Ralanced Fund	МΔ	NΙΔ		Ownership	100 000	MML IC		i
0000											Massachusetts Mutual Life Insurance					i
0000 04-3277549 0000916053 00 MassMutual Core Bond Fund MA. NIA. Company 0wership	0000			04-3556992		0000916053	0Q	MassMutual Blue Chip Growth Fund	MA	NIA		Ownership	100.000	MML1C		
0000 04-3539084 0000916053 0Q MassMutual Disciplined Growth Fund MA NIA Company Ownership 100.000 MMLIC Massachusetts Mutual Life Insurance Ownership 100.000 MMLIC Ownership 100.000 Ownership Ownership Ownership Ownership Ownership Ownership Ownership Owne	0000			04-3277549		0000916053	OQ	MassMutual Core Bond Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
0000 04-3539083 0000916053 0Q MassMutual Disciplined Value Fund MA NIA Company Ownership 100.000 MMLIC Ownership Ownership 100.000 MMLIC Ownership Ownership 100.000 MMLIC Ownership 100.000 Ownership O	0000			04-3539084		0000916053	00	MassMutual Disciplined Growth Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000	0000			04_3539083		0000016053	00	MassMutual Disciplined Value Fund	МΔ	NΙΔ		Ownership	100 000	MML IC		i
0000 04-3512590 0000916053 00 MassMutual Equity Opportunities Fund Massachusetts Mutual Life Insurance 0000 Company 0000916053 00 MassMutual Growth Opportunities Fund Massachusetts Mutual Life Insurance 0000916053 00 MassMutual Growth Opportunities Fund Massachusetts Mutual Life Insurance 0000916053 00 MassMutual Inflation-Protected and Income Massachusetts Mutual Life Insurance 0000916053 00 MMLIC 0000916053 00 0000916053 00 MMLIC 0000916053 00 0000								•			Massachusetts Mutual Life Insurance					i
. 0000	0000			01-0821120		0000916053	00	MassMutual Diversified Value Fund	MA	NIA		Ownership	100.000	MML1C		
.0000	0000			04-3512590		0000916053	0Q	MassMutual Equity Opportunities Fund	MA	NIA		Ownership	100.000	MMLIC		
0000	0000			04-3512589		0000916053	00		MA	NIA	Company	Ownership	100.000	MMLIC		
	0000			03-0532475		0000916053	00		MA	NIA		Ownership	100 000	MM IC		i
000 000							00				Massachusetts Mutual Life Insurance					
. 0000							UQ		MA	NIA		Ownersnip				
. 0000	0000			04-3464165		0000916053	0Q		MA	NIA		Ownership	100.000	MMLIC		
Massachusetts Mutual Lite Insurance	0000			92-1441036		0000916053	00	massmattari neti resimini by Jriivi gan 2005 Fund	MA	NIA		Ownership	100.000	MMLIC		

SCHEDULE Y

						_	_								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Type	lf			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
								D:							
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance					
. 0000			45-1618222	l	0000916053	00	MassMutual Select 80/20 Allocation Fund	MA	NI A	Company	Ownership	100.000	MMLIC	1	
										Massachusetts Mutual Life Insurance	•				
. 0000			04-3584138	l	0000916053	0Q	MassMutual Select Fundamental Value Fund	MA	NIA	Company	Ownership.	100.000	MMLIC	1	l
										Massachusetts Mutual Life Insurance	,				
. 0000			04-3557000	l	0000916053	0Q	MassMutual Select Overseas Fund	MA	NIA		Ownership.	100.000	MMLIC	1	
							MassMutual Select T Rowe Price Retirement			Massachusetts Mutual Life Insurance	,				
. 0000			92-1427882	l	0000916053	00	2065 Fund	MA	NIA	Company	Ownership.	53.460	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3464205		0000916053	00	MassMutual Small Cap Growth Equity Fund	MA	NIA		Ownership.	100.000	IMM IC		
							massimutati simili sap si sirtii Equity i uilu iiii			Massachusetts Mutual Life Insurance	,				
. 0000			04-3424705		0000916053	00	MassMutual Small Cap Opportunities Fund	МА	NIA		Ownership	100.000	IMMLIC.		
. 5555			01 0124700				macomataar omarr oup opportunities runa			Massachusetts Mutual Life Insurance	0 milet emp		IIII III		
. 0000			02-0769954		0000916053	0Q	MassMutual Small Cap Value Equity Fund	МΔ	NIA		Ownership	100.000	IMMLIC		
. 0000			02 0703334			- Cut	massmatuar omarr oup varue Equity runu			Massachusetts Mutual Life Insurance	Office Strip		INNIE I O		
. 0000			26-0099965		0000916053	00	MassMutual Strategic Bond Fund	мл	NIA		Ownership	100.000	IMM IC		1
. 0000			20-0099900		0000310003	UQ	massmutuar strategic bond Fund	mA	NIA	Ouiipariy	Owner Strip	100.000	MWILTO		
		I		ĺ	I			ĺ	I				ſ	1	

Asterisk	Explanation
Asterisk	
1	Massachusetts Mutual Life Insurance Company owns 14.23% of the affiliated debt of Jefferies Finance LLC
2	Debt investors own .5% and includes only Great Lakes III, L.P.
3	Debt investors own .2% and includes only Great Lakes III, L.P.

2

SCHEDULE Y

	PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES											
1	2	3	4	5	6	7	8	9	10	11	12	13
						Income/						
					Purchases, Sales	(Disbursements) Incurred in						Reinsurance
					or Exchanges of	Connection with		Income/		Any Other Material		Reinsurance Recoverable/
					Loans, Securities,	Guarantees or		(Disbursements)		Activity Not in the		(Payable) on
NAIC					Real Estate.	Undertakings for	Management	Incurred Under		Ordinary Course of		Losses and/or
Company	ID	Names of Insurers and Parent,	Shareholder	Capital	Mortgage Loans or	the Benefit of any	Agreements and	Reinsurance		the Insurer's		Reserve Credit
Code	Number	Subsidiaries or Affiliates	Dividends	Contributions	Other Investments	Affiliate(s)	Service Contracts	Agreements	*	Business	Totals	Taken/(Liability)
65935		Massachusetts Mutual Life Insurance										
		Company (MMLIC)	1,424,064,026	(796,316,594)	(681,836,705)					(4,671,563,564)	(4,725,652,837).	(65,401,858)
			26,605,997	(4,805,169)	50,000,000						71,800,828	23,840,098
70416		MML Bay State Life Insurance Company	(25,000,000)								(25,000,000)	16,650,111
63312		MassMutual Ascend Life Insurance Company	(200,000,000)	(700,000)							(200,700,000)	
		2160 Grand Manager LLC		7,820,505							7,820,505	
		Baring Investment Series LLC		(126,099)							(126,099)	
		Barings Affordable Housing Mortgage Fund I	(0.500.050)	// a/a a/=\							// 5/0 000	
		LTC	(3,502,953)	(1,046,047)							(4,549,000)	
		Barings Affordable Housing Mortgage Fund	(5.007.045)	4 540 045							(704 000)	
		II LLC	(5,307,345)	4,543,345							(764,000)	
	85-3036663	Barings Affordable Housing Mortgage Fund	(4 400 005)	00 500 004							00 477 000	
	00 4000050	III LLCBarings Asset-Based Income Fund (US) LP	(1,422,205)	33,599,304							32,177,099	
				96,088							96,088	
		Barings California Mortgage Fund IV		29,366,459							29,366,459	
	88-3/92609	Barings Centre Street CLO Equity Partnership LP	(5.707.050)	10 017 115							12,279,162	
		Barings CLO 2018-IVBarings CLO 2019-IV		5,389,787 22,132,013							5,389,787 22,132,013	
		Barings CLO 2019-IVBarings CLO 2020-I		22,132,013							22, 132,013	
		Barings CLO 2020-1										
		Barings CLO 2020-II		3,000,190							25,377,097	
		Barings CLO 2020-III					•••••					
		Barings CLO 2021-1		7 /10 120							7,419,138	
	98-1624360	Barings CLO 2022-1		7 060 000							7.960.000	
		Barings CLO 2022-1		3.813.160							3.813.160	
	81-0841854	Barings CLO Investment Partners LP		(7,169,811)							(7,169,811)	
	84-3784245	Barings Emerging Generation Fund LP	(1 0/1 862)	23,280,617			•••••				22,238,755	
		Barings Euro CLO 2021-I DAC	(1,041,002)	4,942,971			•••••				4.942.971	
		Barings Euro CLO 2021-III DAC		11,292,696			•••••				11.292.696	
		Barings European Core Property Fund SCSp .		2,504,024							2,504,024	
		Barings European Private Loan Fund III A .	(6,397,425)	3.274.022							(3,123,403)	
	40 00011EE	Barings European Real Estate Debt Income	(0,007,420)								(0,120,400)	
		Fund	(9,454,921)								(9,454,921)	
		Barings Finance LLC			(539.000.000)						(539,000,000)	
	98-1332384	Barings Global Energy Infrastructure Fund			(000,000,000)						(000,000,000)	
		I LP		99,468,189							99,468,189	
	82-3867745	Barings Global Real Assets Fund LP	(304.749)	(1.175.909)							(1.480.658)	
		Barings Global Special Situations Credit		(1, 1. 5, 000)							(1,100,000)	
		4 Delaware		6,483,090					1		6,483,090	
[l												
		4 LUX		2,198,521					1		2,198,521	
		Barings Hotel Opportunity Venture	(3.175.000)	16,760,000								

		PARI 2	- SUMMAI	RY OF INS	OKEK'S	IKANSAU	CTIONS W	IIHANY	AFFIL	IA I E 5		
1	2	3	4	5	6	7 Income/	8	9	10	11	12	13
NAIC Company Code	ID Number	Names of Insurers and Parent, Subsidiaries or Affiliates	Shareholder Dividends	Capital Contributions	Purchases, Sales or Exchanges of Loans, Securities, Real Estate, Mortgage Loans or Other Investments	(Disbursements) Incurred in Connection with Guarantees or Undertakings for the Benefit of any Affiliate(s)	Management Agreements and Service Contracts	Income/ (Disbursements) Incurred Under Reinsurance Agreements	*	Any Other Material Activity Not in the Ordinary Course of the Insurer's Business	Totals	Reinsurance Recoverable/ (Payable) on Losses and/or Reserve Credit Taken/(Liability)
	86-3661023	. Barings Innovations & Growth Real Estate										
		Fund		16,878,540							16,878,540	
		Barings Middle Market CLO 2017-I Ltd & LLC		07 777 770							07 777 770	
		B : N: III N I I I O O OO O		37,777,778							37,777,778	
		Barings Middle Market CLO 2019-1 Barings Perpetual European Direct Lending		39,743,173							39,743,173	
		Fund		164,325,000							164,325,000	
	98-1332384	Barings RE Credit Strategies VII LP	196,927	(3,546,185)							(3,349,258)	
	85-3449260	Barings Real Estate Debt Income Fund LP	(21, 139, 211)					•••••				
	00 0440200	Barings Real Estate European Value Add I	(21, 100,211)					•••••				
		SCSp	6 . 137 . 179	(29,824,200)							(23,687,021)	
		Barings Small Business Fund, L.P.		2,236,234							2,236,234	
	98-1567942	. Barings Target Yield Infrastructure Debt									, . , .	
		Fund	(5,802,624)	25,832,526							20,029,902	
	87-1262754	Barings Transportation Fund LP	(462,009)	37, 176, 534							36,714,525	
		Barings Umbrella Fund LUX SCSp SICAV RAIF										
				16,757,022							16,757,022	
	04–1590850	Berkshire Way LLC	(139,000,000)	(140,725,000)							(279,725,000).	
		Braemar Energy Ventures I, L.P.	(4,292,985)	(1,936,639)							(6,229,624).	
	05 4007747	. CML Special Situations Investor LLC	(339,743)	125,278							(214,465)	
	95-4207717	. Cornerstone California Mortgage Fund i LLC	(5,802,195)	(163, 191)							(5,965,386).	
	95-4207717	Cornerstone California Mortgage Fund II	(0,002,100)	(100, 101)				•••••			(0,000,000).	
	55 4207717	LLC	(3,154,675)	(944.793)							(4,099,468)	
	95-4207717	Cornerstone California Mortgage Fund III	(0, 101, 010)	(011,100)				***************************************				
		LLC	(3,632,037)	24,280,758							20,648,721	
	56-2630592	. Cornerstone Fort Pierce Development LLC		155,069							155,069	
	61-1750537	Cornerstone Permanent Mortgage Fund II	(3,937,882)	(1,020,118)							(4,958,000)	
		Cornerstone Permanent Mortgage Fund III										
		LLC	(4,990,337)	(402,663)							(5,393,000)	
	61-1793735	. Cornerstone Permanent Mortgage Fund IV LLC	(= 000 445)	(10.555)							(5.040.000)	
	45 0000040		(5,629,445)	(12,555)							(5,642,000).	
	45–2632610 81–4258759	. Cornerstone Permanent Mortgage Fund LLC	(3,950,083)	(1,557,917)							(5,508,000)(3,200,000).	
	20-0348173	CREA/PPC Venture LLC	(9/5,8/4)	2,136,721							2,136,721	
	82-2783393	Danville Riverwalk Venture, LLC		665,000								
	04-1590850	DPI Acres Capital SPV LLC	(3.169.173)	(151,830,827)							(155.000.000)	
	O-T 1000000	E2E Affordable Housing Debt Fund LLC	(0, 109, 170)	105,488				•••••			105.488	
		EIP Holdings I, LLC	(4.448.631)								(4.448.631)	
		EM Opportunities LLC		(184,775,000)							(184,775,000)	
	04-1590850	Euro Real Estate Holdings LLC		34,434,784							34,434,784	
	90-0991195	. Gateway Mezzanine Partners II LP	(6,416,765)	(6,789,671)							(13,206,437)	
	04-1590850	. GIA EU Holdings LLC	243, 146	46,501,978							46,745,124	
	37-1708623	Great Lakes III, L.P	(954,655)	(834, 105)							(1,788,760).	
	46-2252944	. Haven Life Insurance Agency, LLC		20,000,000							20,000,000	

	PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES											
1 NAIC	2	3	4	5	Purchases, Sales or Exchanges of Loans, Securities, Real Estate,	7 Income/ (Disbursements) Incurred in Connection with Guarantees or Undertakings for	8 Management	9 Income/ (Disbursements) Incurred Under	10	Any Other Material Activity Not in the Ordinary Course of	12	Reinsurance Recoverable/ (Payable) on Losses and/or
Company Code	ID Number	Names of Insurers and Parent, Subsidiaries or Affiliates	Shareholder Dividends	Capital Contributions	Mortgage Loans or Other Investments	the Benefit of any Affiliate(s)	Agreements and Service Contracts	Reinsurance Agreements	*	the Insurer's Business	Totals	Reserve Credit Taken/(Liability)
		Insurance Road LLC	(181,300,000)	(133,796,757)							(315,096,757)	
			(42,280)	(173,756)							(216,036)	
		JFIN Revolver Fund, L.P		1,168,943							1, 168, 943	
		Landmark Manchester Holdings LLC		4,608,454							4,608,454	
		Martello Re Limited								4,671,563,564	4,671,563,564	
	04-2854319	MassMutual Holding LLC		100,705,102							(629,294,898)	
				13,683,045							13,683,045	
		MassMutual ishares 60/40 Allocation Fund	(370,031)								(370,031)	
		MassMutual Mortgage Lending LLC		94,930,768							94,930,768	
	51-0529328	MassMutual Premier Main Street Fund	(9,252)								(9,252)	
		MassMutual Premier Strategic Emerging	4.5								(15)	
	07. 4000000	Markets Fund	(15)								(15)	
		MassMutual RetireSMART 2035 Fund	(2,472)								(2,472)	
		MassMutual RetireSMART 2045 Fund	(3,309)								(3,309)	
		MassMutual RetireSMART 2055 Fund	(36,689)								(36,689)	
		MassMutual RetireSMART 2060 Fund	(466,228)								(466,228)	
	03-0532464	MassMutual RetireSMART In Retirement Fund	(2,565).								(2,565)	
	42-1710935	MassMutual Select Mid-Cap Value Fund	(2,505)								(2,503)	
	04-3584140	MassMutual Select Small Company Value	(2,002)								(2,002)	
		Fund	(2,649)								(2.649)	
	82-3347422	MassMutual Select T. Rowe Price Retirement	(2,049)								(2,049)	
		2005 Fund	(2,009)								(2,009)	
		MassMutual Venture US IV LP	(2,000)									
	04-1590850	MassMutual Ventures US IV GP		1,237,500							1,237,500	
		Miami Douglas Three MM, LLC		2,593,185		••••••					2,593,185	
	04-1590850	MM 1400 E 4th Street Member LLC		277,131		••••••					277,131	
	31-1395344	MM Ascend Life Investor Services, LLC		700,000		••••••						
	04-1590850	MM Brookhaven Member LLC		3,291,302							3,291,302	
		MM CM Holding LLC							l		23,783,302	
	04-1590850	MM Copper Hill Road LLC		2.393.634							2.393.634	
	04-1590850	MM East South Crossing Member LLC		1,034,228					l		1,034,228	
[l		MM Investment Holdina										
	04-1590850	MM Kannapolis Industrial Member LLC		23,661,342							23,661,342	
	04-1590850	MM National Self-Storage Program Member		-, ,-							-, ,-	
		LLC	30 , 173	10,392,632					[10,422,805	
	04-1590850	MM Private Equity Intercontinental LLC		82.276.892							79,379,490	
		MM Rothesay Holdco US LLC		16,573,927							16,573,927	
	04-1590850	MM Subline Borrower LLC		162,545							162,545	
		MML Investment Advisers, LLC	(47,339,800)						[(47,339,800)	
	04-1590850	MML Private Equity Fund Investor LLC	(7.812.922)	(17, 165, 758)							(24,978,679)	
	47-3544629	MML Series II Equity Rotation Fund	(482,008)								(482,008)	
	04-1590850	MMV Climate Technology Fund GP		6,301,783							6,301,783	
		One Harbor Shore LLC		5,053,528							5,053,528	
		PACO France Logistics LLC		300,362							300,362	

			O O									
1	2	3	4	5	6	7	8	9	10	11	12	13
						Income/						
						(Disbursements)						
					Purchases, Sales	Incurred in						Reinsurance
					or Exchanges of	Connection with		Income/		Any Other Material		Recoverable/
					Loans, Securities,	Guarantees or		(Disbursements)		Activity Not in the		(Payable) on
NAIC					Real Estate,	Undertakings for	Management	Incurred Under		Ordinary Course of		Losses and/or
Company	ID	Names of Insurers and Parent,	Shareholder	Capital	Mortgage Loans or	the Benefit of any	Agreements and	Reinsurance		the Insurer's		Reserve Credit
Code	Number	Subsidiaries or Affiliates	Dividends	Contributions	Other Investments	Affiliate(s)	Service Contracts	Agreements	*	Business	Totals	Taken/(Liability)
	46-5460309	Red Lake Ventures, LLC		86,667							86,667	
	81-4065378	Remington L & W Holdings LLC		(3,974,291)							(3,974,291)	
		Rothesay Life Plc										24,911,649
		Sleeper Street LLC	l	97.497.896							97.497.896	
	06-1563535	The MassMutual Trust Company	l(4.500.000)			L		L			(4.500.000)	
	47-5322979	Timberland Forest Holding LLC	(1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(758, 500)							(758.500)	
	41-2280129	Tower Square Capital Partners IIIA, L.P		(1 644 192)							(1.644.192)	
	04-1590850			12 115 620							(, , - ,	
	04-1590850	Trailside MM Member LLC		/ 100 51/								
	04-1390030	Unna, Dortmund Holding LLC	(226, 247)	004 560								
	45 5404400	Unna, Dortmund Holding LLC	(220,247)	824,302								
	45-5401109	Washington Gateway Apartments Venture LLC	(100, 070)	4 404 040							040 070	
	00 0574045		(190,973)	1, 104, 649							913,676	
	32-0574045			2,850,000							2,850,000	
	83-1325764	Washington Gateway Two LLC		4,072,069							4,072,069	
	04-1590850	Washington Pine LLC		50,894							50,894	
	88-3861481	West 37th Street Hotel LLC	(2,145,259)	505,007							(1,640,252)	
9999999 Co	ntrol Totals								XXX			

SCHEDULE Y

PART 3 - ULTIMATE CONTROLLING PARTY AND LISTING OF OTHER U.S. INSURANCE GROUPS OR ENTITIES UNDER THAT ULTIMATE CONTROLLING PARTY'S CONTROL

17411 0 02111117112 0011111102		0.00	0.0.0.0	CINCOL C OIN EINTILE CINEELN		/ · · · · · · · · · · · · · · · · ·	
1	2	3	4	5	6	7	8
			Granted				Granted
			Disclaimer				Disclaimer
			of Control\				of Control\
			Affiliation of				Affiliation of
		Ownership	Column 2			Ownership	Column 5
		Percentage	Over			Percentage	Over
		Column 2 of	Column 1		U.S. Insurance Groups or Entities Controlled	(Column 5 of	Column 6
Insurers in Holding Company	Owners with Greater Than 10% Ownership	Column 1	(Yes/No)	Ultimate Controlling Party	by Column 5	Column 6)	(Yes/No)
Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO
C.M. Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO
MML Bay State Life Insurance Company	C.M. Life Insurance Company	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO
MassMutual Ascend Life Insurance Company	Glidepath Holdings Inc.	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO
Annuity Investors Life Insurance Company	MassMutual Ascend Life Insurance Company	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO
Manhattan National Life Inusrance Company	Manhattan National Holding LLC	100.000	NO	Massachusetts Mutual Life Insurance Company	Massachusetts Mutual Life Insurance Company	100.000	NO

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

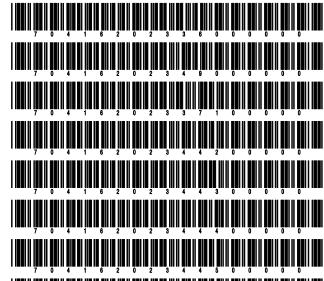
REQUIRED FILINGS

The following supplemental reports are required to be filed as part of your statement filing unless specifically waived by the domiciliary state. However, in the event that your domiciliary state waives the filing requirement, your response of WAIVED to the specific interrogatory will be accepted in lieu of filing a "NONE" report and a bar code will be printed below. If the supplement is required of your company but is not being filed for whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.

questio	ns.	Responses
1.	MARCH FILING Will the Supplemental Compensation Exhibit be filed with the state of domicile by March 1?	
2.	Will the confidential Risk-based Capital Report be filed with the NAIC by March 1?	YES
3.	Will the confidential Risk-based Capital Report be filed with the state of domicile, if required, by March 1?	YES
4.	· · · · · · · · · · · · · · · · · · ·	YES
5.	APRIL FILING Will Management's Discussion and Analysis be filed by April 1?	YES
6.	Will the Life, Health & Annuity Guaranty Association Assessable Premium Exhibit - Parts 1 and 2 be filed with the state of domicile and the NAIC by April 1? (Not applicable to fraternal benefit societies)	YES
7.	Will the Supplemental Investment Risks Interrogatories be filed by April 1?	YES
0	JUNE FILING	VEC
8.	Will an audited financial report be filed by June 1?	YES
9.	Will Accountant's Letter of Qualifications be filed with the state of domicile and electronically with the NAIC by June 1?	YES
The fel	SUPPLEMENTAL FILINGS	
supple specifi	llowing supplemental reports are required to be filed as part of your annual statement filing if your company is engaged in the type of busines ment. However, in the event that your company does not transact the type of business for which the special report must be filed, your resp c interrogatory will be accepted in lieu of filing a "NONE" report and a bar code will be printed below. If the supplement is required of your comp whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.	oonse of NO to th
10.	MARCH FILING Will Schedule SIS (Stockholder Information Supplement) be filed with the state of domicile by March 1? (Not applicable to fraternal benefit societies)	NO
11.	Will the Medicare Supplement Insurance Experience Exhibit be filed with the state of domicile and the NAIC by March 1?	NO
12.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC by March 1?	NO
13.	Will the actuarial opinion on participating and non-participating policies as required in Interrogatories 1 and 2 to Exhibit 5 be filed with the state of domicile and electronically with the NAIC by March 1?	NO
14.	Will the actuarial opinion on non-guaranteed elements as required in interrogatory #3 to Exhibit 5 be filed with the state of domicile and electronically with the NAIC by March 1?	YES
15.	Will the actuarial opinion on X-Factors be filed with the state of domicile and electronically with the NAIC by March 1?	NO
16.	Will the actuarial opinion on Separate Accounts Funding Guaranteed Minimum Benefit be filed with the state of domicile and electronically with the NAIC by March 1?	NO
17.	Will the actuarial opinion on Synthetic Guaranteed Investment Contracts be filed with the state of domicile and electronically with the NAIC by March 1?	NO
18.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC by March 1?	NO
19.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC by March 1?	NO
20.	Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC by March 1?	NO
21.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC by March 1?	NO
22.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC by March 1?	e NO
23.	Will the C-3 RBC Certifications required under C-3 Phase I be filed with the state of domicile and electronically with the NAIC by March 1?	YES
24.	Will the C-3 RBC Certifications required under C-3 Phase II be filed with the state of domicile and electronically with the NAIC by March 1?	YES
25.	Will the Actuarial Certifications Related to Annuity Nonforfeiture Ongoing Compliance for Equity Indexed Annuities be filed with the state of domicile and electronically with the NAIC by March 1?	NO

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

26.	26. Will the actuarial opinion required by the Modified Guaranteed Annuity Model Regulation be filed with the state of NAIC by March 1?	
27.	27. Will the Actuarial Certification regarding the use of 2001 Preferred Class Tables required by the Model Regulation Preferred Mortality Tables for Use in Determining Minimum Reserve Liabilities be filed with the state of domicile a March 1?	nd electronically with the NAIC by
28.	28. Will the Worker's Compensation Carve-Out Supplement be filed by March 1? (Not applicable to fraternal benefit s	societies) N0
29.	29. Will Supplemental Schedule O be filed with the state of domicile and the NAIC by March 1?	N0
30.	30. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC by March 1?	
31.	31. Will an approval from the reporting entity's state of domicile for relief related to the five-year rotation requirement in electronically with the NAIC by March 1?	•
32.		independent CPA be filed
33.		ittees be filed electronically with the
34.	34. Will the VM-20 Reserves Supplement be filed with the state of domicile and the NAIC by March 1?	N0
35.	35. Will the Health Supplement be filed with the state of domicile and the NAIC by March 1?	
36.	 Will the Market Conduct Annual Statement (MCAS) Premium Exhibit for Year be filed with appropriate jurisdiction	s and with the NAIC by March 1? YES
37.	37. Will the confidential Regulatory Asset Adequacy Issues Summary (RAAIS) required by the Valuation Manual be fi April 1?	
38.	38. Will the Long-Term Care Experience Reporting Forms be filed with the state of domicile and the NAIC by April 1?	N0
39.	39. Will the Credit Insurance Experience Exhibit be filed with the state of domicile and the NAIC by April 1? (Not appli	cable to fraternal benefit societies) NO
40.	40. Will the Accident and Health Policy Experience Exhibit be filed by April 1?	N0
41.	41. Will the Supplemental Health Care Exhibit (Parts 1 and 2) be filed with the state of domicile and the NAIC by April	l 1? NO
42.	42. Will the confidential Actuarial Memorandum required by Actuarial Guideline XXXVIII 8D be filed with the state of d	omicile by April 30? N0
43.	43. Will the Supplemental Term and Universal Life Insurance Reinsurance Exhibit be filed with the state of domicile a	nd the NAIC by April 1? N0
44.	44. Will the Variable Annuities Supplement be filed with the state of domicile and the NAIC by April 1?	YES
45.	45. Will the confidential Executive Summary of the PBR Actuarial Report be filed with the state of domicile by April 17	YES
46.	46. Will the confidential Life Summary of the PBR Actuarial Report be filed with the state of domicile by April 1?	
47.	47. Will the confidential Variable Annuities Summary of the PBR Actuarial Report be filed with the state of domicile by	/ April 1? YES
	AUGUST FILING	
48.		st 1? YES
40	Explanations:	
10. 11.		
12.		
13.	· ·	
15. 16.		
17.		
18.	· ·	
19. 20.	· •	
21.	21. Not Required	
22.	· ·	
25. 26.	· ·	
27.		
28.		
29. 30.		
31.	31. Not Required	
32. 33.		
34.	· ·	
35.	35. This line of business is not written by the company.	
38. 39.	, , ,	
40.	· •	
41.	, , ,	
42. 43.		
46.	·	
	Bar Codes:	
10.	10. SIS Stockholder Information Supplement [Document Identifier 420]	
11.	7 0 4 1 6 2 0	
12.	12. Trusteed Surplus Statement [Document Identifier 490]	
	1 MM 11 MM 1	2 3 4 9 0 0 0 0 0 0
13.	13. Participating Opinion for Exhibit 5 [Document Identifier 371]	
15.	15. Actuarial Opinion on X-Factors [Document Identifier 442]	



Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]

Actuarial Opinion on Synthetic Guaranteed Investment Contracts [Document Identifier 444]

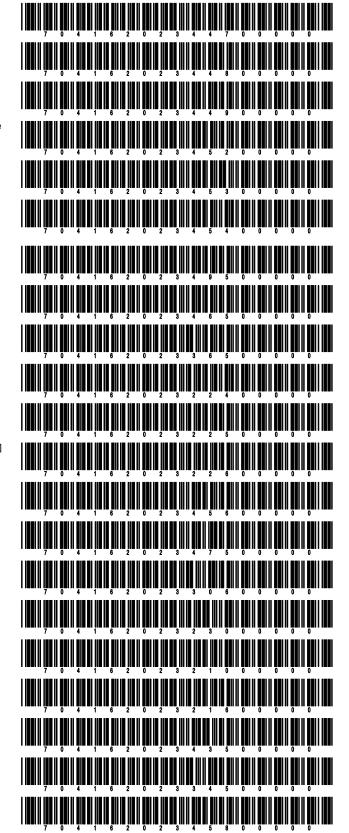
Actuarial Opinion on Separate Accounts Funding Guaranteed Minimum Benefit [Document Identifier 443]

16.

18.

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

- 20. Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]
- Actuarial Certifications Related to Annuity Nonforfeiture Ongoing Compliance for Equity Indexed Annuities [Document Identifier 452]
- 26. Modified Guaranteed Annuity Model Regulation [Document Identifier 453]
- Actuarial Certification regarding the use of 2001 Preferred Class Tables required by the Model Regulation Permitting the Recognition of Preferred Mortality Tables for Use in Determining Minimum Reserve Liabilities [Document Identifier 454]
- 28. Workers' Compensation Carve-Out Supplement [Document Identifier 495]
- 29. Supplemental Schedule O [Document Identifier 465]
- 30. Medicare Part D Coverage Supplement [Document Identifier 365]
- 31. Relief from the five-year rotation requirement for lead audit partner [Document Identifier 224]
- Relief from the one-year cooling off period for independent CPA [Document Identifier 225]
- 33. Relief from the Requirements for Audit Committees [Document Identifier 226]
- 34. VM-20 Reserves Supplement [Document Identifier 456]
- 35. Health Care Receivables Supplement [Document Identifier 475]
- 38. Long-Term Care Experience Reporting Forms [Document Identifier 306]
- 39. Credit Insurance Experience Exhibit [Document Identifier 230]
- 40. Accident and Health Policy Experience Exhibit [Document Identifier 210]
- 41. Supplemental Health Care Exhibit (Parts 1 and 2) [Document Identifier 216]
- 42. Actuarial Memorandum Required by Actuarial Guideline XXXVIII 8D [Document Identifier 435]
- 43. Supplemental Term and Universal Life Insurance Reinsurance Exhibit [Document Identifier 345]
- 46. Life Summary of the PBR Actuarial Report [Document Identifier 458]



NONE

SUMMARY INVESTMENT SCHEDULE

		Gross Investm	ent Holdings		Admitted Asser		
		1	2 Percentage of Column 1	3	4 Securities Lending Reinvested Collateral	5 Total (Col. 3 + 4)	6 Percentage of Column 5
	Investment Categories	Amount	Line 13	Amount	Amount	Amount	Line 13
1.	Long-Term Bonds (Schedule D, Part 1):						
	1.01 U.S. governments					4,341,924	1.046
	1.02 All other governments						
	1.03 U.S. states, territories and possessions, etc. guaranteed		0.000				0.000
	1.04 U.S. political subdivisions of states, territories, and possessions, guaranteed		0.000				0.000
	1.05 U.S. special revenue and special assessment obligations, etc. non- guaranteed	23.889.039	5.755	23.889.039		23,889,039	5.755
	1.06 Industrial and miscellaneous					219, 126,003	
	1.07 Hybrid securities					1,814,225	
	1.08 Parent, subsidiaries and affiliates					995, 172	
	1.09 SVO identified funds			·			0.000
	1.10 Unaffiliated bank loans						
	1.11 Unaffiliated certificates of deposit						
	1.12 Total long-term bonds					250, 166, 363	
2.	Preferred stocks (Schedule D, Part 2, Section 1):	200, 100,000		200, 100,000		200, 100,000	
۷.	2.01 Industrial and miscellaneous (Unaffiliated)		0 000				0 000
	2.02 Parent, subsidiaries and affiliates						
	2.03 Total preferred stocks						
3.	Common stocks (Schedule D, Part 2, Section 2):		0.000				0.000
٥.	3.01 Industrial and miscellaneous Publicly traded (Unaffiliated)	22 071	0 006	22 071		22 071	0.006
	3.02 Industrial and miscellaneous Publicly traded (Unaffillated)					22,371	
	3.03 Parent, subsidiaries and affiliates Publicly traded						
	3.04 Parent, subsidiaries and affiliates Other						
	3.05 Mutual funds						
	3.06 Unit investment trusts						
	3.07 Closed-end funds						
	3.08 Exchange traded funds						
	3.09 Total common stocks	22,9/1	0.006	22,9/1		22,971	0.000
4.	Mortgage loans (Schedule B):		0.000				0.000
	4.01 Farm mortgages						
	4.02 Residential mortgages			1,335,508		1,335,508	
	4.03 Commercial mortgages						
	4.04 Mezzanine real estate loans						
	4.05 Total valuation allowance						
	4.06 Total mortgage loans	1,335,508	0.322	1,335,508		1,335,508	0.322
5.	Real estate (Schedule A):						
	5.01 Properties occupied by company						
	5.02 Properties held for production of income						
	5.03 Properties held for sale						
	5.04 Total real estate		0.000				0.000
6.	Cash, cash equivalents and short-term investments:						
	6.01 Cash (Schedule E, Part 1)						
	6.02 Cash equivalents (Schedule E, Part 2)					63, 123, 354	
	6.03 Short-term investments (Schedule DA)						
	6.04 Total cash, cash equivalents and short-term investments					67,096,892	16 . 164
7.	Contract loans			96,298,549		96,298,549	23 . 199
8.	Derivatives (Schedule DB)						
9.	Other invested assets (Schedule BA)			183,328		183,328	0.044
10.	Receivables for securities						0.000
11.	Securities Lending (Schedule DL, Part 1)		0.000		XXX	xxx	XXX
12.	Other invested assets (Page 2, Line 11)		0.000				0.000
13.	Total invested assets	415,103,610	100.000	415,103,610		415, 103, 610	100.000

SCHEDULE A - VERIFICATION BETWEEN YEARS

Real Estate

1.	Book/adjusted carrying value, December 31 of prior year
2.	Cost of acquired:
	2.1 Actual cost at time of acquisition (Part 2, Column 6)
	2.2 Additional investment made after acquisition (Part 2, Column 9)
3.	Current year change in encumbrances:
	3.1 Totals, Part 1, Column 13
	3.2 Totals, Part 3, Column 11
4.	Total gain (loss) on disposals, Part 3, Column 18
5.	Deduct amounts received on disposals, Part 3, C 15 15 15 15 15 15 15 15 15 15 15 15 15
6.	Total foreign exchange change in book/adjusted cary was ex-
	6.1 Totals, Part 1, Column 15
	6.2 Totals, Part 3, Column 13
7.	Deduct current year's other than temporary impairment recognized:
	7.1 Totals, Part 1, Column 12
	7.2 Totals, Part 3, Column 10
8.	Deduct current year's depreciation:
	8.1 Totals, Part 1, Column 11
	8.2 Totals, Part 3, Column 9
9.	Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)
10.	Deduct total nonadmitted amounts
11.	Statement value at end of current period (Line 9 minus Line 10)

SCHEDULE B - VERIFICATION BETWEEN YEARS

Mortgage Loans

1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	1,657,058
2.	Cost of acquired:	
	2.1 Actual cost at time of acquisition (Part 2, Column 7)	
	2.2 Additional investment made after acquisition (Part 2, Column 8)	1,556
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	(185)
5.	Unrealized valuation increase/(decrease):	
	5.1 Totals, Part 1, Column 9	
	5.2 Totals, Part 3, Column 8	
6.	Total gain (loss) on disposals, Part 3, Column 18	
7.	Deduct amounts received on disposals, Part 3, Column 15	200,403
8.	Deduct amortization of premium and mortgage interest points and commitment fees	122,518
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest:	
	9.1 Totals, Part 1, Column 13	
	9.2 Totals, Part 3, Column 13	
10.	Deduct current year's other than temporary impairment recognized:	
	10.1 Totals, Part 1, Column 11	
	10.2 Totals, Part 3, Column 10	
11.	Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	1,335,508
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	1,335,508
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	1,335,508

SCHEDULE BA - VERIFICATION BETWEEN YEARS

Other Long-Term Invested Assets

1.	Book/adjusted carrying value, December 31 of prior year	191,076
2.	Cost of acquired:	
	2.1 Actual cost at time of acquisition (Part 2, Column 8)	
	2.2 Additional investment made after acquisition (Part 2, Column 9)	52,369
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 16	
	3.2 Totals, Part 3, Column 12	
4.	Accrual of discount	13,617
5.	Unrealized valuation increase/(decrease):	
	5.1 Totals, Part 1, Column 13(58,704)	
	5.2 Totals, Part 3, Column 9	(58,704)
6.	Total gain (loss) on disposals, Part 3, Column 19	
7.	Deduct amounts received on disposals, Part 3, Column 16	15,031
8.	Deduct amortization of premium and depreciation	
9.	Total foreign exchange change in book/adjusted carrying value:	
	9.1 Totals, Part 1, Column 17	
	9.2 Totals, Part 3, Column 14	
10.	Deduct current year's other than temporary impairment recognized:	
	10.1 Totals, Part 1, Column 15	
	10.2 Totals, Part 3, Column 11	
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	183,328
12.	Deduct total nonadmitted amounts	
13.	Statement value at end of current period (Line 11 minus Line 12)	183,328

SCHEDULE D - VERIFICATION BETWEEN YEARS

Bonds and Stocks

2. Cost of bonds and stocks acquired, Part 3, Column 7 3. Accrual of discount 4. Unrealized valuation increase/(decrease): 4.1. Part 1, Column 12 (320,678) 4.2. Part 2, Section 1, Column 15 318 4.3. Part 2, Section 2, Column 13 318 4.4. Part 4, Column 11 5. Total gain (loss) on disposals, Part 4, Column 19	391,275
4. Unrealized valuation increase/(decrease): (320,678) 4.1. Part 1, Column 12 (320,678) 4.2. Part 2, Section 1, Column 15	
4.1. Part 1, Column 12 (320,678) 4.2. Part 2, Section 1, Column 15 318 4.3. Part 2, Section 2, Column 13 318 4.4. Part 4, Column 11 318	
4.2. Part 2, Section 1, Column 15 318 4.3. Part 2, Section 2, Column 13 318 4.4. Part 4, Column 11 318	
4.3. Part 2, Section 2, Column 13	
4.4. Part 4, Column 11	/aaa
•	/aaa
5. Total gain (loss) on disposals, Part 4, Column 19	(320,360)
	(502,428)
6. Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	9,309,776
7. Deduct amortization of premium	257,712
8. Total foreign exchange change in book/adjusted carrying value:	
8.1. Part 1, Column 15	
8.2. Part 2, Section 1, Column 19	
8.3. Part 2, Section 2, Column 16	
8.4. Part 4, Column 15	
9. Deduct current year's other than temporary impairment recognized:	
9.1. Part 1, Column 14	
9.2. Part 2, Section 1, Column 17	
9.3. Part 2, Section 2, Column 14	
9.4. Part 4, Column 13	337,584
10. Total investment income recognized as a result of prepayment penalties and/or acceleration fees, Note 5Q, Line 2	4,314
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	250, 189, 334
12. Deduct total nonadmitted amounts	

SCHEDULE D - SUMMARY BY COUNTRY Long-Term Bonds and Stocks OWNED December 31 of Current Year

		Long-Term Bonds and Stocks	S OWNED December 31	of Current Year		
			1	2	3	4
5			Book/Adjusted	Fain Value	A street O set	Deal/alue of Deale
	escription		Carrying Value	Fair Value	Actual Cost	Par Value of Bonds
BONDS	1.	United States			4,339,760	4,345,699
Governments	2.	Canada				
(Including all obligations guaranteed by governments)	3.	Other Countries	1 244 224			
, ,	4.	Totals	4,341,924	4,343,626	4,339,760	4,345,699
U.S. States, Territories and Possessions						
(Direct and guaranteed)	5.	Totals				
U.S. Political Subdivisions of States, Territories and Possessions (Direct and guaranteed)	6.	Totals				
U.S. Special Revenue and Special Assessment Obligations and all Non- Guaranteed Obligations of Agencies and Authorities of Governments and						
their Political Subdivisions	7.	Totals	23,889,039	24,141,028	23,885,545	24,762,613
Industrial and Miscellaneous, SVO Identified Funds, Unaffiliated Bank Loans, Unaffiliated Certificates of Deposit and Hybrid Securities	8.	United States	, ,	190,609,629	201,370,289	203,472,825
	9.	Canada		, ,	3,283,818	3,320,000
	10.	Other Countries	15,870,785	16,435,612	16,312,132	16,545,000
(unaffiliated)	11.	Totals	220,940,228	210, 192, 788	220,966,239	223,337,825
Parent, Subsidiaries and Affiliates	12.	Totals	995,172	914,817	993,474	1,000,000
	13.	Total Bonds	250,166,363	239,592,259	250,185,018	253,446,137
PREFERRED STOCKS	14.	United States				
Industrial and Miscellaneous	15.	Canada				
(unaffiliated)	16.	Other Countries				
	17.	Totals				
Parent, Subsidiaries and Affiliates	18.	Totals				
	19.	Total Preferred Stocks				
COMMON STOCKS	20.	United States				
Industrial and Miscellaneous	21.	Canada				
(unaffiliated), Mutual Funds, Unit Investment Trusts, Closed-End	22.	Other Countries	22,971	22,971	4,641	
Funds and Exchange Traded Funds	23.	Totals	22,971	22,971	4,641	
Parent, Subsidiaries and Affiliates	24.	Totals				
	25.	Total Common Stocks	22,971	22,971	4,641	
	26.	Total Stocks	22,971	22,971	4,641	
	27.	Total Bonds and Stocks	250,189,334	239,615,230	250,189,659	

SCHEDULE D - PART 1A - SECTION 1

	1	2	3	wned December 31,	5	6	7	8	0	10	11	12
NAIC Designation	1 Year or Less	Over 1 Year Through 5 Years	Over 5 Years Through 10 Years	Over 10 Years Through 20 Years	Over 20 Years	No Maturity Date	Total Current Year	Col. 7 as a % of Line 12.7	Total from Col. 7 Prior Year	% From Col. 8 Prior Year	Total Publicly Traded	Total Privately Placed (a)
1. U.S. Governments		.,										
1.1 NAIC 1	400	4,341,524				xxx	4,341,924	1 4	4,445,692	1.4	4,341,924	
1.2 NAIC 2		,,,,				XXX	,					
1.3 NAIC 3						XXX						
1.4 NAIC 4						XXX						
1.5 NAIC 5						XXX						
1.6 NAIC 6						XXX						
1.7 Totals	400	4,341,524				XXX	4,341,924	1.4	4,445,692	1.4	4,341,924	
2. All Other Governments	400	7,071,027				***	7,071,327	1.7	7,770,002	1.7	7,071,027	
						xxx						
-						XXX						
2.2 NAIC 2						XXX						
2.3 NAIC 3												
2.4 NAIC 4						XXX						
2.5 NAIC 5						XXX						
2.6 NAIC 6						XXX						
2.7 Totals						XXX						
3. U.S. States, Territories and Possessions etc.,												
Guaranteed												
3.1 NAIC 1						XXX						
3.2 NAIC 2						XXX						
3.3 NAIC 3						XXX						
3.4 NAIC 4						XXX						
3.5 NAIC 5						XXX						
3.6 NAIC 6						XXX						
3.7 Totals						XXX						
4. U.S. Political Subdivisions of States, Territories and												
Possessions , Guaranteed												
4.1 NAIC 1						XXX						
4.2 NAIC 2						XXX						
4.3 NAIC 3						XXX						
4.4 NAIC 4						XXX						
4.5 NAIC 5						XXX						
4.6 NAIC 6						XXX						
4.7 Totals						XXX						
U.S. Special Revenue & Special Assessment						7001						
Obligations, etc., Non-Guaranteed												
5.1 NAIC 1	1,782,098	6, 102, 425	5,675,722	6.968.844	3.359.948	XXX	23.889.037	7.6	24 , 133	0.0	23.889.037	
5.2 NAIC 2						XXX	20,000,007					
5.3 NAIC 3						XXX						
5.4 NAIC 4						XXX						
5.5 NAIC 5						XXX						
5.6 NAIC 6						XXX						
	1.782.098	6,102,425	5.675.722	6.968.844	3.359.948		23.889.037	7.6	24.133	0.0	23.889.037	
5.7 Totals	1,782,098	6, 102,425	5,6/5,722	0,908,844	১,১ ১৮,948	XXX	23,889,037	7.6	24,133	0.0	23,889,037	1

11.3 NAIC 3

11.4 NAIC 4

11.5 NAIC 5

11.6 NAIC 6.

11.7 Totals

ANNUAL STATEMENT FOR THE YEAR 2023 OF THE MML Bay State Life Insurance Company

SCHEDULE D - PART 1A - SECTION 1 (Continued)

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations 12 Total Privately 6 No Maturity 2 Over 1 Year Over 5 Years Over 10 Years Col. 7 as a % of Total Publicly Total from Col. 7 % From Col. 8 **NAIC** Designation 1 Year or Less Through 5 Years Through 10 Years Through 20 Years Over 20 Years Date Total Current Year Line 12.7 Prior Year Prior Year Placed (a) Traded 6. Industrial & Miscellaneous (Unaffiliated) .21.635.871 100.038.207 .22.798.964 .. 1.805.905 .993.237 147.272.184 46.6 . 130 . 115 . 824 .40.3 116.030.946 .31.241.238 6.1 NAIC 1 ... XXX.. .67,604,639 .58,378,262 ...5.230.529 ...1,030,068 ..999,603 133,243,101 . 182,432,025 . 56.5 ..58,993,244 ...74,249,857 .XXX.. .42.1 6.2 NAIC 2. .485.289 ...2.653.272 .. 15 . 670 ..3.154.2314.119.319 ..2.580.523 .. 573.708 6.3 NAIC 3 XXX.. ..1.0 .. 1.3 .12.102 ..742.506 .30,055 .27,554 .812,217 ..0.3 ..6,331 .0.0 .812,217 6.4 NAIC 4 .XXX. ...1,334 . 6,850 .17,053 .25,237 .999,646 ..25,237 6.5 NAIC 5 .XXX. ..0.0 ..0.3 166,397 539.400 705,797 0.2 539,400 166,397 6.6 NAIC 6 XXX 89,905,632 161,819,097 28,092,271 2,863,527 2,532,240 285,212,767 90.2 317,673,145 98.3 178,981,567 106,231,200 6.7 Totals XXX 7. Hybrid Securities 7.1 NAIC 1 .XXX.. 1,814,225 .. 1,814,225 ..0.6 . 1,814,225 7.2 NAIC 2. .XXX.. 7 3 NAIC 3 .XXX.. 7.4 NAIC 4 XXX. 7.5 NAIC 5 XXX. 7.6 NAIC 6 XXX 1.814.225 1.814.225 0.6 1.814.225 7.7 Totals XXX 8. Parent, Subsidiaries and Affiliates .XXX.. 8.1 NAIC 1. .995.172 .993.621 .995.172 8.2 NAIC 2. XXX.. .995.172 ..0.3 8.3 NAIC 3 XXX. 8.4 NAIC 4 XXX. 8.5 NAIC 5. XXX. 8.6 NAIC 6. XXX 995,172 995, 172 993,621 8.7 Totals XXX 0.3 0.3 995, 172 9. SVO Identified Funds 9.1 NAIC 1. XXX.. XXX.. .XXX.. XXX.. .XXX.. 9.2 NAIC 2 XXX. .XXX.. .XXX. XXX.. .XXX. 9.3 NAIC 3 .XXX.. .XXX. XXX. XXX.. .XXX.. 9.4 NAIC 4 .XXX.. XXX. .XXX.. XXX.. XXX.. 9.5 NAIC 5. .XXX.. .XXX.. XXX.. .XXX.. .XXX.. 9.6 NAIC 6. XXX XXX XXX XXX XXX 9.7 Totals XXX XXX XXX XXX XXX 10. Unaffiliated Bank Loans 10.1 NAIC 1 XXX.. 10.2 NAIC 2 XXX. 10.3 NAIC 3 .XXX. 10.4 NAIC 4 .XXX.. 10.5 NAIC 5. .XXX.. 10.6 NAIC 6. XXX 10.7 Totals XXX 11. Unaffiliated Certificates of Deposit 11.1 NAIC 1 .XXX.. 11.2 NAIC 2 XXX.

XXX.

XXX..

.XXX..

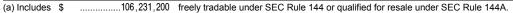
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SCHEDULE D - PART 1A - SECTION 1 (Continued)

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations.

	Quality and	Maturity Distributi	on of All Bonds O	wned December 3	1, at Book/Adjus	ed Carrying Value	es by Major Types	of Issues and NA	AIC Designations			
	1	2	3	4	5	6	7	8	9	10	11	12
NAIC Designation	1 Year or Less	Over 1 Year Through 5 Years	Over 5 Years Through 10 Years	Over 10 Years Through 20 Years	Over 20 Years	No Maturity	Total Current Year	Col. 7 as a % of Line 12.7	Total from Col. 7	% From Col. 8 Prior Year	Total Publicly	Total Privately
12. Total Bonds Current Year	1 Year or Less	inrough 5 Years	Inrough 10 Years	Inrough 20 Years	Over 20 Years	Date	Total Current Year	Line 12.7	Prior Year	Prior Year	Traded	Placed (a)
	00 440 000	110 100 150	28,474,686	8,774,749	4 050 405		175 500 145	55.5	1004	2007	144 001 007	04 044 000
12.1 NAIC 1	(d)23,418,369	110,482,156	5.230.529	1.030.068	4,353,185		175,503,145		XXX	XXX		31,241,238
12.2 NAIC 2	(d)67,604,639	59,373,434		, , ,	2,813,828				XXX	XXX		
12.3 NAIC 3	(d)485,289	2,653,272	15,670				3,154,231	1.0	XXX	XXX	2,580,523	573,708
12.4 NAIC 4	(d) 12,102	742,506	30,055	27,554		• • • • • • • • • • • • • • • • • • • •	812,217	0.3	XXX	XXX	812,217	
12.5 NAIC 5	(d)	6,850	17,053				(c)25,237	0.0	XXX	XXX	25,237	
12.6 NAIC 6	(d) 166,397				539,400		(c) 705,797	0.2	XXX	XXX	539,400	166,397
12.7 Totals	91,688,130	173,258,218	33,767,993	9,832,371	7,706,413		(b)316,253,125	100.0	XXX	XXX	210,021,925	106,231,200
12.8 Line 12.7 as a % of Col. 7	29.0	54.8	10.7	3.1	2.4		100.0	XXX	XXX	XXX	66.4	33.6
13. Total Bonds Prior Year												
13.1 NAIC 1		97,603,299	25,381,305	1,343,826			XXX	XXX	134,585,649	41.6		15,480,199
13.2 NAIC 2	112,822,112	49,092,696	19,217,128	1,294,112	999,598		XXX	XXX	183,425,646	56.8	58,638,043	124,787,603
13.3 NAIC 3	508,932	2,991,649	618,738				XXX	XXX	4, 119, 319	1.3	3,551,702	567,617
13.4 NAIC 4	1,249	2,792	2,290				XXX	XXX	6,331	0.0	6,331	
13.5 NAIC 5	504,789	486,057	6,851	1,949			XXX	XXX	(c)999,646	0.3	29,208	970,438
13.6 NAIC 6		·		•			XXX	XXX	(c)			
13.7 Totals	121,938,619	150, 176, 493	45,226,312	2,639,887	3, 155, 280		XXX	XXX	(b)323, 136, 591	100.0	181,330,734	141,805,857
13.8 Line 13.7 as a % of Col. 9	37.7	46.5	14.0	0.8	1.0		XXX	XXX	100.0	XXX	56.1	43.9
14. Total Publicly Traded Bonds												
14.1 NAIC 1	14.229.708	96,465,043	20,983,922	8,230,049	4,353,185		144.261.907	45.6	119 . 105 . 450	36.9	144.261.907	XXX
14.2 NAIC 2	7.498.246	47.384.003	3.076.498	1.030.068	2.813.827		61.802.642	19.5	58.638.043	18.1	61.802.642	XXX
14.3 NAIC 3		2.110.753					2.580.523	0.8	3,551,702	1.1	2.580.523	XXX
14.4 NAIC 4	12.102	742.506	30,055	27,554			812.217	0.3	6.331	0.0	812.217	XXX
14.5 NAIC 5	1,334	6,850	17,053				25.237	0.0	29.208	0.0	25,237	XXX
14.6 NAIC 6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		539.400		539.400	0.2			539.400	XXX
14.7 Totals	22,211,160	146,709,155	24,107,528	9,287,671	7,706,412		210.021.926	66.4	181,330,734	56.1	210,021,926	XXX
14.8 Line 14.7 as a % of Col. 7	10.6	69.9	11.5	4 4	3.7		100.0	XXX	XXX	XXX	100 0	XXX
14.9 Line 14.7 as a % of Line 12.7, Col. 7,			11.0			•••••	100.0				100.0	
Section 12	7.0	46.4	7.6	2.9	2.4		66.4	XXX	XXX	XXX	66.4	XXX
15. Total Privately Placed Bonds				2.0				7000	7001	7001	3311	7001
15.1 NAIC 1	9.188.661	14.017.113	7.490.764	544 .700			31.241.238	9.9	15 . 480 . 199	4.8	xxx	31.241.238
15.2 NAIC 2	60 . 106 . 393	11.989.432	2.154.031		1		74.249.857	23.5	124.787.603	38.6	XXX	74.249.857
15.3 NAIC 3	15.519	542.519	15.670				573.708	0.2	567.617	0.2	XXX	573.708
15.4 NAIC 4						•					XXX	
15.5 NAIC 5		•				•			970.438	0.3	XXX	
15.6 NAIC 6	166.397	•				•	166.397	0.1		0.0	XXX	166.397
15.7 Totals	69,476,970	26,549,064	9,660,465	544,700	1		106,231,200	33.6	141,805,857	43.9	XXX	106,231,200
15.7 Totals	65.4	25,549,064	9,660,465	0.5	0.0		100,231,200	XXX	XXX		XXX	100,231,200
	03.4	23.0	9.1	0.5	0.0		100.0			***	***	100.0
15.9 Line 15.7 as a % of Line 12.7, Col. 7, Section 12	22.0	8.4	3.1	0.2	0.0		33.6	XXX	XXX	xxx	xxx	33.6
Section 12	22.0	0.4	J. I	0.2	0.0		33.0	^^^	^^^	^^^	^^^	33.0



⁽SVO) in reliance on the insurer's certification that the issuer is current in all principal and interest payments. "6*" means the NAIC designation was assigned by the SVO due to inadequate certification of principal and interest payments.

SCHEDULE D - PART 1A - SECTION 2

	Matur	rity Distribution of	All Bonds Owner		it Book/Adjusted		oy Major Type and	Subtype of Issue	25			
	1	2	3	4	5	6	7	8	9	10	11	12
		Over 1 Year	Over 5 Years	Over 10 Years		No Maturity	,	Col. 7 as a % of	Total from Col. 7	% From Col. 8	Total Publicly	Total Privately
Distribution by Type	1 Year or Less	Through 5 Years	Through 10 Years	Through 20 Years	Over 20 Years	Date	Total Current Year	Line 12.09	Prior Year	Prior Year	Traded	Placed
1. U.S. Governments												
1.01 Issuer Obligations		4,341,226				XXX	4,341,226	1.4	4,444,561	1.4	4,341,226	
1.02 Residential Mortgage-Backed Securities	400	299				XXX	699	0.0	1, 130	0.0	699	
1.03 Commercial Mortgage-Backed Securities						XXX						
1.04 Other Loan-Backed and Structured Securities						XXX						
1.05 Totals	400	4,341,525				XXX	4,341,925	1.4	4,445,691	1.4	4,341,925	
2. All Other Governments												
2.01 Issuer Obligations						XXX						
2.02 Residential Mortgage-Backed Securities						XXX						
2.03 Commercial Mortgage-Backed Securities						XXX						
2.04 Other Loan-Backed and Structured Securities						XXX						
2.05 Totals						XXX						
U.S. States, Territories and Possessions, Guaranteed						7001						
3.01 Issuer Obligations						xxx						
3.02 Residential Mortgage-Backed Securities						XXX						
3.03 Commercial Mortgage-Backed Securities						XXX						
3.04 Other Loan-Backed and Structured Securities						XXX						
3.05 Totals						XXX						
						XXX						
U.S. Political Subdivisions of States, Territories and Possessions, Guaranteed												
4.01 Issuer Obligations						xxx						
4.02 Residential Mortgage-Backed Securities						XXX						
4.03 Commercial Mortgage-Backed Securities		••••••		•••••		XXX						
4.04 Other Loan-Backed and Structured Securities		••••••		•••••								
4.04 Other Loan-Backed and Structured Securities 4.05 Totals						XXX						
						XXX						
5. U.S. Special Revenue & Special Assessment Obligations												
etc., Non-Guaranteed 5.01 Issuer Obligations						100/						
5.01 Issuer Obligations	1.782.098	6 . 102 . 425	5.675.722	6.968.844		XXX	23.889.037	7.6	24 . 132	0.0	23.889.037	•••••
	1,782,098	6, 102,425	5,0/5,722	6,968,844	3,359,948	XXX	23,889,037		24, 132	0.0	23,889,037	•••••
5.03 Commercial Mortgage-Backed Securities 5.04 Other Loan-Backed and Structured Securities		•••••				XXX						•••••
5.04 Other Loan-Backed and Structured Securities 5.05 Totals	4 700 000	0 400 405	F 07F 700	0.000.044	3.359.948	XXX	23.889.037	7.0	04 400	0.0	00 000 007	
	1,782,098	6,102,425	5,675,722	6,968,844	3,359,948	XXX	23,889,037	7.6	24, 132	0.0	23,889,037	
6. Industrial and Miscellaneous												
6.01 Issuer Obligations	80,264,381	95,761,638	24,044,220		2,532,239	XXX	204,749,485	64.7	239,884,684	74.2	113,020,936	91,728,549
6.02 Residential Mortgage-Backed Securities	814,705	3, 174, 340	1,476,116	408,877		XXX	5,874,038	1.9		0.5	553,523	5,320,515
6.03 Commercial Mortgage-Backed Securities	7, 181, 259	60,001,957				XXX	67, 183, 216	21.2	69,054,828	21.4	64,566,078	2,617,138
6.04 Other Loan-Backed and Structured Securities	1,645,287	2,881,162	2,571,935	307,643		XXX	7,406,027	2.3	7,100,792	2.2	841,028	6,564,999
6.05 Totals	89,905,632	161,819,097	28,092,271	2,863,527	2,532,239	XXX	285,212,766	90.2	317,673,146	98.3	178,981,565	106,231,201
7. Hybrid Securities												
7.01 Issuer Obligations					1,814,225	XXX	1,814,225	0.6			1,814,225	
7.02 Residential Mortgage-Backed Securities		•••••				XXX						
7.03 Commercial Mortgage-Backed Securities						XXX						
7.04 Other Loan-Backed and Structured Securities						XXX						
7.05 Totals					1,814,225	XXX	1,814,225	0.6			1,814,225	
8. Parent, Subsidiaries and Affiliates					, ,		, ,				, ,	
8.01 Issuer Obligations		995 . 172				xxx	995 . 172	0.3	993.621	0.3	995 . 172	
8.02 Residential Mortgage-Backed Securities		, 172				XXX						•
8.03 Commercial Mortgage-Backed Securities				• • • • • • • • • • • • • • • • • • • •		XXX						•
8.04 Other Loan-Backed and Structured Securities		•		• • • • • • • • • • • • • • • • • • • •		XXX						•
8.05 Affiliated Bank Loans - Issued				••••••		XXX						•••••
8.06 Affiliated Bank Loans - Acquired		•••••		••••••		XXX						•••••
8.07 Totals	-	995, 172				XXX	995, 172	0.3	993,621	0.3	995, 172	
0.07 10(815		990, 1/2				, , , , , , , , , , , , , , , , , , ,	990, 1/2	0.3	993,021	0.3	990, 1/2	

SCHEDULE D - PART 1A - SECTION 2 (Continued)

					1 1A - SEC							
	Matu		f All Bonds Owner	d December 31, a			by Major Type and	Subtype of Issue				
	1	2	3	4	5	6	7	8	9	10	11	12
Distribution by Type	1 Year or Less	Over 1 Year Through 5 Years	Over 5 Years Through 10 Years	Over 10 Years Through 20 Years	Over 20 Years	No Maturity Date	Total Current Year	Col. 7 as a % of Line 12.09	Total from Col. 7 Prior Year	% From Col. 8 Prior Year	Total Publicly Traded	Total Privately Placed
SVO Identified Funds 9.01 Exchange Traded Funds Identified by the SVO	xxx	xxx	xxx	XXX	xxx							
,	XXX	XXX	***	***	XXX							
Unaffiliated Bank Loans 10.01 Unaffiliated Bank Loans - Issued						xxx						
10.02 Unaffiliated Bank Loans - Issued						XXX						
10.03 Totals						XXX						
11. Unaffiliated Certificates of Deposit						7001						
11.01 Totals						XXX						
12. Total Bonds Current Year												
12.01 Issuer Obligations	80,264,381	101,098,036	24,044,220	2,147,007	4,346,464	XXX		67.0	XXX	XXX	120, 171, 559	91,728,549
12.02 Residential Mortgage-Backed Securities	2,597,203	9,277,064	7, 151, 838	7,377,721	3,359,948	XXX		9.4	XXX	XXX	24,443,259	5,320,515
12.03 Commercial Mortgage-Backed Securities	7, 181, 259	60,001,957				XXX	67, 183, 216	21.2	XXX	XXX	64,566,078	2,617,138
12.04 Other Loan-Backed and Structured Securities .		2,881,162		307,643		XXX	7,406,027	2.3	XXX	XXX	841,028	6,564,999
12.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX				XXX	XXX		
12.06 Affiliated Bank Loans						XXX			XXX	XXX		
12.07 Unaffiliated Bank Loans						XXX			XXX	XXX		
12.09 Totals		173,258,219	33,767,993	9,832,371	7,706,412		316,253,125	100.0	XXX	XXX	210,021,924	106,231,201
12.10 Line 12.09 as a % of Col. 7	29.0	54.8		3.1	2.4		100.0	XXX	XXX	XXX	66.4	33.6
13. Total Bonds Prior Year	20.0	01.0	10.7	0.1	2.1		100.0	7000	7001	7000	00.1	00.0
13.01 Issuer Obligations	118.494.735			1.984.066	1.992.683	XXX	XXX	XXX		75.9	114, 177, 900	
13.02 Residential Mortgage-Backed Securities	129.681	1.315.539			,002,000	XXX	XXX	XXX	1.658.105			1,032,854
13.03 Commercial Mortgage-Backed Securities	2,390,299	66,664,528				XXX	XXX	XXX	69,054,828	21.4	65,737,216	3,317,611
13.04 Other Loan-Backed and Structured Securities .	923,905	1,896,188		592,581	1,162,597	XXX	XXX	XXX	7,100,792	2.2	790,368	6,310,423
13.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX		XXX	XXX				
13.06 Affiliated Bank Loans						XXX	XXX	XXX				
13.07 Unaffiliated Bank Loans						XXX	XXX	XXX				
13.08 Unaffiliated Certificates of Deposit	404 000 040	450 470 400	45 000 040	0.000.007	0 455 000	XXX	XXX	XXX	000 400 500	100.0	101 000 705	111 005 055
13.09 Totals	121,938,619	150, 176, 492 46.5		2,639,887	3,155,280		XXXXXX	XXXXXX	323, 136, 590		181,330,735	141,805,855
14. Total Publicly Traded Bonds	31.1	40.3	14.0	0.0	1.0			^^^	100.0	^^^	30.1	40.3
14.01 Issuer Obligations				2.147.007	4.346.464	XXX		38.0	114 . 177 . 900	35.3	120 . 171 . 559	XXX
14.02 Residential Mortgage-Backed Securities	1.850.532	6.357.000		7.066.312	3.359.948	XXX	24.443.259	7.7	625.251	0.2		XXX
14.03 Commercial Mortgage-Backed Securities	6,062,778	58,503,300				XXX	64,566,078	20.4	65,737,216			XXX
14.04 Other Loan-Backed and Structured Securities .	120,230	420,417	226,029	74,352		XXX	841,028	0.3	790,368	0.2	841,028	XXX
14.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX							XXX
14.06 Affiliated Bank Loans						XXX						XXX
14.07 Unaffiliated Bank Loans						XXX						XXX
14.08 Unaffiliated Certificates of Deposit		146.709.155	24 . 107 . 527	9.287.671	7,706,412	XXX	210.021.924		181,330,735	56.1	210.021.924	XXX
14.10 Line 14.09 as a % of Col. 7				9,287,671				XXX	XXX	XXX	210,021,924	XXXXXX
14.10 Line 14.09 as a % of Line 12.09, Col. 7,	10.0		11.0	4.4			100.0				100.0	
Section 12	7.0	46.4	7.6	2.9	2.4		66.4	xxx	XXX	XXX	66.4	XXX
15. Total Privately Placed Bonds	7.0	10.1	7.0	2.0	2.1		00.1	,,,,,	7001	,,,,,	00.1	7001
15.01 Issuer Obligations	66,086,762	19,669,598	5,972,189			XXX		29.0	131, 144, 966	40.6	XXX	91,728,549
15.02 Residential Mortgage-Backed Securities	746,671	2,920,064	1,342,371	311,409		XXX		1.7	1,032,854	0.3		5,320,515
15.03 Commercial Mortgage-Backed Securities	1,118,481	1,498,657				XXX		8	3,317,611	1.0		2,617,138
15.04 Other Loan-Backed and Structured Securities .	1,525,057	2,460,745		233,291		XXX		2.1	6,310,423	2.0		6,564,999
15.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX	XXX					XXX	
15.06 Affiliated Bank Loans											XXX	
15.07 Unaffiliated Bank Loans 15.08 Unaffiliated Certificates of Deposit						XXX					XXX	
15.08 Unamiliated Certificates of Deposit	69.476.971		9.660.466	544.700		^^^	106.231.201	33.6	141.805.855	43.9		106,231,201
15.10 Line 15.09 as a % of Col. 7				544,700				XXX	XXX	XXX43.9	XXX	106,231,201
15.11 Line 15.09 as a % of Line 12.09, Col. 7,		25.0					100.0					100.0
Section 12	22.0	8.4	3.1	0.2			33.6	XXX	XXX	XXX	XXX	33.6
					1	1						,

SCHEDULE DA - VERIFICATION BETWEEN YEARS

Short-Term Investments

Snort-Term Investm	1	2	3	4	5
	Total	Bonds	Mortgage Loans	Other Short-term Investment Assets (a)	Investments in Parent, Subsidiaries and Affiliates
Book/adjusted carrying value, December 31 of prior year					
Cost of short-term investments acquired	34,577,516	34,577,516			
3. Accrual of discount	351,287	351,287			
Unrealized valuation increase/(decrease)					
5. Total gain (loss) on disposals	725	725			
Deduct consideration received on disposals	31,966,120	31,966,120			
7. Deduct amortization of premium					
Total foreign exchange change in book/adjusted carrying value					
Deduct current year's other than temporary impairment recognized					
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	2,963,408	2,963,408			
11. Deduct total nonadmitted amounts					
12. Statement value at end of current period (Line 10 minus Line 11)	2,963,408	2,963,408			

⁽a) Indicate the category of such assets, for example, joint ventures, transportation equipment:

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards NONE

Schedule DB - Part B - Verification - Futures Contracts

NONE

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open NONE

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open **NONE**

Schedule DB - Verification - Book/Adjusted Carrying Value, Fair Value and Potential Exposure of Derivatives

NONE

SCHEDULE E - PART 2 - VERIFICATION BETWEEN YEARS

(Cash Equivalents) 2 Money Market Total Other (a) Bonds Mutual funds 1. Book/adjusted carrying value, December 31 of prior year110,224,032 ..110,224,032 1,266,614,069 ... 1.266.614.069 2. Cost of cash equivalents acquired6,117,4136,117,413 3. Accrual of discount Unrealized valuation increase/(decrease) .. 1,745 1,745 5. Total gain (loss) on disposals 1,319,833,904 1,319,833,904 6. Deduct consideration received on disposals ... Deduct amortization of premium .. 8. Total foreign exchange change in book/adjusted carrying value 9. Deduct current year's other than temporary impairment recognized 10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-... 63, 123, 354 ... 63, 123, 354 7+8-9) 11. Deduct total nonadmitted amounts 63,123,354 Statement value at end of current period (Line 10 minus Line 11) 63,123,354

 $[\]hbox{(a) Indicate the category of such investments, for example, joint ventures, transportation equipment:}\\$