

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

### **ANNUAL STATEMENT**

FOR THE YEAR ENDED DECEMBER 31, 2021 OF THE CONDITION AND AFFAIRS OF THE

MML Bay State Life Insurance Company

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

NAIC	Group Code <u>0435</u> <u>043</u>		Code <u>70416</u> Employ	yer's ID Number	43-0581430
Organized under the Laws of	(Current) (Prio Connectio		, State of Domicile or Por	t of Entry	СТ
Country of Domicile		United Sta	ates of America		
Licensed as business type:	Life, A	ccident and Health [	X ] Fraternal Benefit Societie	es[]	
Incorporated/Organized	04/01/1935		Commenced Busine	ss	07/01/1894
Statutory Home Office	100 Bright Meadow Bo	oulevard		Enfield	, CT, US 06082
	(Street and Numb	er)	(1	City or Town, Sta	ate, Country and Zip Code)
Main Administrative Office			State Street		
	Springfield, MA, US 01111	(Street	and Number)	/1	3-788-8411
(City o	r Town, State, Country and Zip Code	e)			(Telephone Number)
Mail Address	1295 State Street			Springfie	ld, MA, US 01111
Ividii Address	(Street and Number or P.O. I	Box)			ate, Country and Zip Code)
Primary Location of Books an	d Doordo	1205	State Street		
Filliary Location of Books an	u Records		and Number)		
	Springfield, MA, US 01111	· · · · · · · · · · · · · · · · · · ·	_,		3-788-8411
(City o	r Town, State, Country and Zip Code	<b>3</b> )		(Area Code)	(Telephone Number)
Internet Website Address		www.ma	assmutual.com		
Statutory Statement Contact	Trevor Wad	de Gordon	,		617-695-4321
	•	me)		•	code) (Telephone Number)
	tgordon@MassMutual.com (E-mail Address)				3-226-4086 AX Number)
	(= /			(	
		OF	FICERS		
President and Chief		O.	TIOERO		
Executive Officer				rer	
Secretary	Akintokunbo Akir	nbajo	Appointed Actua	ary	Vy Quoc Ho
		C	OTHER		
	Executive Vice President and ancial Officer	Michael Robert Fann	ing, Executive Vice Presiden	t Melvi	n Timothy Corbett, Executive Vice President
Roger William C	randall - Chairman		S OR TRUSTEES Robert Fanning		Elizabeth Ward Chicares
	mes O'Connor				
State of	Massachusetts	– ss			
County of	Hampden	_			
The officers of this reporting of the herein described as	entity being duly sworn, each depose ssets were the absolute property of	e and say that they ar	e the described officers of santity free and clear from any	aid reporting enti v liens or claims	<li>y, and that on the reporting period stated above, thereon, except as herein stated, and that this</li>
statement, together with relate	ed exhibits, schedules and explanat	ions therein contained	d, annexed or referred to, is a	a full and true sta	atement of all the assets and liabilities and of the
					for the period ended, and have been completed at that: (1) state law may differ; or, (2) that state
rules or regulations require	differences in reporting not relate	d to accounting pract	ctices and procedures, acco	ording to the be	est of their information, knowledge and belief,
					ic filing with the NAIC, when required, that is an sted by various regulators in lieu of or in addition
to the enclosed statement.	<b>. .</b>	3,		5 -7	
Roger William (	Crandall	Akintok	unbo Akinbajo		Julieta Giselle Sinisgalli
President and Chief Ex			ecretary		Treasurer
			a le this an origin	al filing?	Voc I V I No I I
Subscribed and sworn to befo	ore me this		<ul><li>a. Is this an original</li><li>b. If no,</li></ul>	ai iiiiiy!	Yes [ X ] No [ ]
day of				endment numbe	r
			<ol><li>Date filed</li></ol>		

3. Number of pages attached......

### **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)		TVOTIGUTITIES / 133Ct3	218,728,243	243,446,730
	Stocks (Schedule D):				
	2.1 Preferred stocks				
	2.2 Common stocks			12,060	
3.	Mortgage loans on real estate (Schedule B):	,		,	
•	3.1 First liens	1,771,148		1,771,148	
	3.2 Other than first liens				2,090,393
4.	Real estate (Schedule A):				, , , , , , , , , , , , , , , , , , , ,
	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 (\$7,111,307 , Schedule E - Part 1), cash equivalents				
	(\$107,988,780 , Schedule E - Part 2) and short-term				
	investments (\$5,999,418 , Schedule DA)	121,099,505		121,099,505	103,615,595
6.	Contract loans (including \$ premium notes)			90,670,570	
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 less \$ charged off (for Title insurers	, ,		, ,	, ,
	only)				
14.	Investment income due and accrued				
15.	Premiums and considerations:	, ,	,	, ,	, ,
	15.1 Uncollected premiums and agents' balances in the course of collection				
	15.2 Deferred premiums and agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	(3,803,929)		(3,803,929)	(2,277,498)
	15.3 Accrued retrospective premiums (\$				
	contracts subject to redetermination (\$				
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers	7,715,214		7,715,214	7,479,473
	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	4, 164, 238		4, 164, 238	3,991,574
	Net deferred tax asset				
19.	Guaranty funds receivable or on deposit	118,464		118,464	159,879
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			203, 186	173,473
24.	Health care (\$ ) and other amounts receivable				
25.	Aggregate write-ins for other than invested assets	460,735		460,735	149,210
26.	Total assets excluding Separate Accounts, Segregated Accounts and				
	Protected Cell Accounts (Lines 12 to 25)	490,234,880	2,219,132	488,015,749	493,287,942
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts	4.974.831.570		4.974.831.570	4,858,831,848
28.	Total (Lines 26 and 27)	5,465,066,450	2,219,132	5,462,847,319	5,352,119,790
	DETAILS OF WRITE-INS		, , , ,	-, , , , , , , , , , , , , , , , , , ,	.,,
1101.	521/1120 01 1111112 1110				
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)				
	Miscellaneous other assets	460.735		460,735	149,210
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)	460,735		460,735	149,210
	,		•		-,

### **LIABILITIES, SURPLUS AND OTHER FUNDS**

	•	1 Current Year	2 Prior Year
1.	Aggregate reserve for life contracts \$ 143,285,875 (Exh. 5, Line 9999999) less \$ included in Line 6.3 (including \$ 127,043,147 Modco Reserve)	143 285 875	143 124 981
	Aggregate reserve for accident and health contracts (including \$ Modco Reserve)		
3. 4.	Liability for deposit-type contracts (Exhibit 7, Line 14, Col. 1) (including \$ Modco Reserve)  Contract claims:	15,980,530	13,771,784
	4.1 Life (Exhibit 8, Part 1, Line 4.4, Col. 1 less sum of Cols. 9, 10 and 11)	9,928,290	7,542,397
5.	4.2 Accident and health (Exhibit 8, Part 1, Line 4.4, sum of Cols. 9, 10 and 11)		
J.	and unpaid (Exhibit 4, Line 10)		
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 \$		
	Modco)		
	6.3 Coupons and similar benefits (including \$ Modco)		
7. 8.	Amount provisionally held for deferred dividend policies not included in Line 6		
0.	\$ discount; including \$ accident and health premiums (Exhibit 1,		
9.	Part 1, Col. 1, sum of lines 4 and 14)		
9.	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	10.055.259	20.144.004
	9.3 Other amounts payable on reinsurance, including \$ assumed and \$ 16.781.392		
	ceded		
10.	Commissions to agents due or accrued-life and annuity contracts \$ 16,615, accident and health	, ,	,
11.	\$ and deposit-type contract funds \$ Commissions and expense allowances payable on reinsurance assumed		20,643
12.	General expenses due or accrued (Exhibit 2, Line 12, Col. 7)		
13.	Transfers to Separate Accounts due or accrued (net) (including \$ (408,912) accrued for expense allowances recognized in reserves, net of reinsured allowances)	16 074 110	12 702 250
14.			
	Current federal and foreign income taxes, including \$ on realized capital gains (losses)		
16.2	Net deferred tax liability		
17.	Amounts withheld or retained by reporting entity as agent or trustee	7,455	61,388
18. 19.	Amounts held for agents' account, including \$ agents' credit balances	(2.518.716)	1.352.348
20.	Net adjustment in assets and liabilities due to foreign exchange rates		
21. 22.	Liability for benefits for employees and agents if not included above		
23.	Dividends to stockholders declared and unpaid		
24.	Miscellaneous liabilities: 24.01 Asset valuation reserve (AVR, Line 16, Col. 7)	6 056 250	7 102 880
	24.02 Reinsurance in unauthorized and certified (\$ ) companies	0,030,230	7, 192,009
	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 24.08 Derivatives		
	24.09 Payable for securities		
	24.10 Payable for securities lending		
25.	Aggregate write-ins for liabilities	365,273	394,330
26. 27.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)  From Separate Accounts Statement		218,778,416
28.	Total liabilities (Lines 26 and 27)	5, 197, 417, 728	5,077,610,264
29.	Common capital stock	2,500,200	2,500,200
30. 31.	Preferred capital stock		
32.	Surplus notes		
33. 34.	Gross paid in and contributed surplus (Page 3, Line 33, Col. 2 plus Page 4, Line 51.1, Col. 1)	143,/36,914	143 , 736 , 914
35.	Unassigned funds (surplus)	119,192,476	128,272,412
36.	Less treasury stock, at cost:  36.1 shares common (value included in Line 29 \$ )		
	36.2shares preferred (value included in Line 30 \$)		
37. 38.	Surplus (Total Lines 31+32+33+34+35-36) (including \$0 in Separate Accounts Statement)  Totals of Lines 29, 30 and 37 (Page 4, Line 55)	262,929,391 265,429,591	272,009,326 274,509,526
39.	Totals of Lines 28, 30 and 38 (Page 2, Line 28, Col. 3)	5,462,847,319	5,352,119,790
0=5	DETAILS OF WRITE-INS		
2501. 2502.	Miscellaneous liabilities		193,420 200.910
2503.			
2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page	365,273	394,330
3101.	Totals (Lines 2001 tillu 2005 pius 2006)(Line 20 above)		394,330
3102.			
3103. 3198.	Summary of remaining write-ins for Line 31 from overflow page		
3199.	Totals (Lines 3101 thru 3103 plus 3198)(Line 31 above)		
3401. 3402.			
3403.			
3498. 3499.	Summary of remaining write-ins for Line 34 from overflow page		
J499.	Totals (Lines 3401 thru 3403 plus 3498)(Line 34 above)		

### **SUMMARY OF OPERATIONS**

	COMMANT OF CLEATIONS	1	2
		Current Year	Prior Year
1.	Premiums and annuity considerations for life and accident and health contracts (Exhibit 1, Part 1, Line 20.4, Col. 1, less Col. 11)	11 403 237	(4,338,246)
2.	Considerations for supplementary contracts with life contingencies		
3.	Net investment income (Exhibit of Net Investment Income, Line 17)	12,821,868	15, 179, 564
4.	Amortization of Interest Maintenance Reserve (IMR, Line 5)		
5. 6.	Separate Accounts net gain from operations excluding unrealized gains or losses	10 306 525	10 226 565
7.	Reserve adjustments on reinsurance ceded (Exhibit 1, Part 2, Line 26.1, Col. 1)	(78, 829, 689)	(70 012 768)
8.	Miscellaneous Income:	(10,020,000)	(10,012,100)
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate		
	Accounts		
	8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income		(886.736)
9.	Total (Lines 1 to 8.3)	( , - ,	17,592,631
10.	Death benefits		
11.	Matured endowments (excluding guaranteed annual pure endowments)		
12.	Annuity benefits (Exhibit 8, Part 2, Line 6.4, Cols. 4 + 8)	1,003,671	1,838,913
13.	Disability benefits and benefits under accident and health contracts		
14. 15.	Coupons, guaranteed annual pure endowments and similar benefits	4 200 356	3 703 836
16.	Group conversions		
17.	Interest and adjustments on contract or deposit-type contract funds	1,241,960	1,420,055
18.	Payments on supplementary contracts with life contingencies	42,724	39,899
19.	Increase in aggregate reserves for life and accident and health contracts	160,895	(2,201,567)
20.	Totals (Lines 10 to 19)	83,666,3/3	44,217,769
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only) (Exhibit 1, Part 2, Line 31, Col. 1)	1 972 212	2 045 004
22.	Commissions and expense allowances on reinsurance assumed (Exhibit 1, Part 2, Line 26.2, Col. 1)		
23.	General insurance expenses and fraternal expenses (Exhibit 2, Line 10, Cols. 1, 2, 3, 4 and 6)	7,767,022	8,547,919
24.	Insurance taxes, licenses and fees, excluding federal income taxes (Exhibit 3, Line 7, Cols. 1 + 2 + 3 + 5)	1, 174,357	735,043
25.	Increase in loading on deferred and uncollected premiums	(9,474)	56
26. 27.	Net transfers to or (from) Separate Accounts net of reinsurance.  Aggregate write-ins for deductions		(1,550,537)
28.	Totals (Lines 20 to 27)	3,074,263	4,060,886
29.	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus		, ,
	Line 28)	21,564,141	13,531,746
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)	21 564 141	13 531 7/16
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)		
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)	18,587,750	12,518,768
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of	(54, 070)	(400 507)
25	\$	(51,270)	(133,507)
35.	CAPITAL AND SURPLUS ACCOUNT	10,550,460	12,300,200
36.	Capital and surplus, December 31, prior year (Page 3, Line 38, Col. 2)	274,509,526	293,454,322
37.	Net income (Line 35)		
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$	19,696	(140,180)
39.	Change in net unrealized foreign exchange capital gain (loss)		
40.	Change in net deferred income tax	(180,399)	(256,559)
41. 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.	Change in asset valuation reserve		
45.	Change in treasury stock (Page 3, Lines 36.1 and 36.2, Col. 2 minus Col. 1)		
46.	Surplus (contributed to) withdrawn from Separate Accounts during period		
47. 48.	Other changes in surplus in Separate Accounts Statement 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)		
F.4	50.3 Transferred to surplus		
51.	Surplus adjustment: 51.1 Paid in		
	51.1 Paid III 51.2 Transferred to capital (Stock Dividend)		
	51.3 Transferred from capital		
	51.4 Change in surplus as a result of reinsurance		
52.	Dividends to stockholders		
53.	Aggregate write-ins for gains and losses in surplus	(1,609,427)	(1,710,613)
54.	Net change in capital and surplus for the year (Lines 37 through 53)	(9,079,935)	(18,944,796)
55.	Capital and surplus, December 31, current year (Lines 36 + 54) (Page 3, Line 38)  DETAILS OF WRITE-INS	265,429,591	274,509,526
08.301	Management and administrative fees	(1,841,568)	(1.684 923)
	Revenue sharing		
	Miscellaneous		
	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)	(27,023)	(886,736)
	Reinsurance ceded adjustment Miscellaneous charges to operations		
	wiscertaileous charges to operations		
	Summary of remaining write-ins for Line 27 from overflow page		
2799.	Totals (Lines 2701 thru 2703 plus 2798)(Line 27 above)	(1,998,713)	(1,550,537)
5301.	Reinsurance ceded adjustment	(1,609,427)	(1,710,613)
	Summary of remaining write-ins for Line 53 from overflow page	(1,609,427)	(1,710,613)
JJ99.	Totals (Lines 5301 thru 5303 plus 5398)(Line 53 above)	(1,000,421)	(1,110,013)

### **CASH FLOW**

	JASH LOW	1	2
		Current Year	Prior Year
	Cash from Operations	Current real	FIIOI Teal
1.	Premiums collected net of reinsurance	3,170,054	820,981
2.	Net investment income		15,788,731
3.	Miscellaneous income	0.500.045	(4,994,848)
4.	Total (Lines 1 through 3)		11,614,864
<b>5</b> .	Benefit and loss related payments		52,146,733
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts		
7.	Commissions, expenses paid and aggregate write-ins for deductions		12,218,371
8.	Dividends paid to policyholders		12,210,071
9.	Federal and foreign income taxes paid (recovered) net of \$(232,405) tax on capital gains (losses)		725,317
10.	Total (Lines 5 through 9)		3,443,329
11.	Net cash from operations (Line 4 minus Line 10)		8,171,535
11.	Net cash from operations (Line 4 minus Line 10)	17,210,000	0,171,500
	Cash from Investments		
12.	Proceeds from investments sold, matured or repaid:		
	12.1 Bonds		76.001.682
	12.2 Stocks		, ,
	12.3 Mortgage loans	311,249	262,098
	12.4 Real estate		
	12.5 Other invested assets		
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments		
	12.7 Miscellaneous proceeds		
	12.8 Total investment proceeds (Lines 12.1 to 12.7)		76,271,350
13.	Cost of investments acquired (long-term only):		
	13.1 Bonds	7 ,437 ,278	12,522,067
	13.2 Stocks		
	13.3 Mortgage loans	735	951
	13.4 Real estate		
	13.5 Other invested assets		
	13.6 Miscellaneous applications		
	13.7 Total investments acquired (Lines 13.1 to 13.6)	7,438,013	12,523,018
14.	Net increase (decrease) in contract loans and premium notes	(2, 176, 191)	(4,025,405
15.	Net cash from investments (Line 12.8 minus Line 13.7 minus Line 14)		67,773,737
	Cash from Financing and Miscellaneous Sources		
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	1,793,464	(3,414,901
	16.5 Dividends to stockholders	27,000,000	29,000,000
	16.6 Other cash provided (applied)	(3,058,823)	(386,834
17.	Net cash from financing and miscellaneous sources (Lines 16.1 to 16.4 minus Line 16.5 plus Line 16.6)	(28,265,360)	(32,801,735
	DECONCILIATION OF CASH CASH FOLITIVALENTS AND SHORT 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)	17,483,910	43,143,537
19.	Cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	17,400,510	40, 140, 337
18.	19.1 Beginning of year	103,615,595	60,472,058
		121,099,505	103,615,595
	19.2 End of year (Line 18 plus Line 19.1)	121,099,000	103,013,393

Note: Supplemental di	sclosures of cash flow	w information for no	on-cash transactions:

Note. Supplemental disclosures of cash flow information for non-cash transactions.			
20.0001. Stock conversions	4,641		
20.0002 Bond conversions and refinancing	435	1,749,327	
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### **ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - SUMMARY**

		ANAL 1313 UF	OPERATION	10 DI LINES	OI BUSINE	33 - 30 IVIIVIA	IX I			
		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	11,403,237	11,387,237		16,000					
2.	Considerations for supplementary contracts with life contingencies		XXX	XXX	302,218		XXX	XXX		XXX
3.	Net investment income	12,821,868	11,960,284	353,047	508,537					
4.	Amortization of Interest Maintenance Reserve (IMR)		244,504	12,209	17,586					
5.	Separate Accounts net gain from operations excluding unrealized gains or losses							XXX		
6.	Commissions and expense allowances on reinsurance ceded		4,025,440	6,371,086				XXX		
7.	Reserve adjustments on reinsurance ceded	(78,829,689)	(67,941,804)	(10,887,885)				XXX		
8.	Miscellaneous Income:									
	8.1 Income from fees associated with investment management, administration and		0.4 100 500							
	contract guarantees from Separate Accounts		61,492,506	6,205,653	598,811			XXX		
	8.2 Charges and fees for deposit-type contracts						XXX	XXX		
	8.3 Aggregate write-ins for miscellaneous income	(27,024)	908, 130	(1,023,040)	87,886					
9.	Totals (Lines 1 to 8.3)	24,638,404	22,076,296	1,031,069	1,531,039					
10.	Death benefits		76,520,023				xxx	XXX		
11.	Matured endowments (excluding guaranteed annual pure endowments)						xxx	XXX		
12.	Annuity benefits		XXX	XXX	1,003,671		xxx	XXX		XXX
13.	Disability benefits and benefits under accident and health contracts		397,745					XXX		
14.	Coupons, guaranteed annual pure endowments and similar benefits							XXX		
15.	Surrender benefits and withdrawals for life contracts	4,299,356	954,588		3,344,768		xxx	XXX		
16.	Group conversions		· · · · · · · · · · · · · · · · · · ·					XXX		
17.	Interest and adjustments on contract or deposit-type contract funds	1,241,960	606,433	216,414	419.113			XXX		
18.	Payments on supplementary contracts with life contingencies	42,724	,	,	42,724		XXX	XXX		
19.	Increase in aggregate reserves for life and accident and health contracts	160,895	(101,502)	120.000	142.397			XXX		
20.	Totals (Lines 10 to 19)	83,666,373	78.377.286	336,414	4,952,673			XXX		
21.	Commissions on premiums, annuity considerations and deposit-type contract funds		, 0,0,200							
	(direct business only)	1,972,212	780,549	1, 149, 627	42,037					XXX
22.	Commissions and expense allowances on reinsurance assumed	, ,	,	, ,	, .			XXX		
23.	General insurance expenses and fraternal expenses.	7.767.022	7.055.251	527.955	183.817					
24.	Insurance taxes, licenses and fees, excluding federal income taxes	1, 174, 357	1, 152, 099	11.750	10,508					
25.	Increase in loading on deferred and uncollected premiums	(9,474)	(9,474)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			XXX		
26.	Net transfers to or (from) Separate Accounts net of reinsurance.	(89,497,513)	(75,625,749)	(9,626,102)	(4,245,663)			XXX		
27.	Aggregate write-ins for deductions	(1,998,713)	(1,830,703)	4,510	(172,521)					
28.	Totals (Lines 20 to 27)	3,074,264	9,899,259	(7,595,846)	770.851					
29.	Net gain from operations before dividends to policyholders, refunds to members and		0,000,200	(1,000,010)	110,001				+	
23.	federal income taxes (Line 9 minus Line 28)	21,564,141	12, 177, 037	8,626,915						
30.	Dividends to policyholders and refunds to members							XXX		
	Net gain from operations after dividends to policyholders, refunds to members and							7000		
J	before federal income taxes (Line 29 minus Line 30)	21,564,141	12, 177, 037	8,626,915	760 , 188					
32.	Federal income taxes incurred (excluding tax on capital gains)	2,976,391	1,680,735	1,190,731	104,925					
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)	18,587,750	10,496,302	7,436,185	655,263					
34.	Policies/certificates in force end of year	30,257	26,618	3,041	598			XXX		
	DETAILS OF WRITE-INS									
08.301	Management and administrative fees	(1,841,568)	(818,529)	(1,023,039)						
08.302	Revenue Sharing	1,118,249	1,030,361		87,889					
	Miscellaneous		696,299	(1)	(2)					
	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)	(27,024)	908,130	(1,023,040)	87,886					
	Reinsurance ceded adjustment	(1,609,427)	(1,609,427)	( . , , 5 10 )	2.,500					
2702.	Miscellaneous charges to operations	(389,285)	(221,275)	4,510	(172,521)					
2702.	minoson and goo to operatione	(000,200)	(221,270)	+,010						
2798.	Summary of remaining write-ins for Line 27 from overflow page									
2799.	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(1.998.713)	(1.830.703)	4.510	(172.521)					
Z133.	10tai3 (Line3 210 1 tillu 2100 piu3 2130) (Lille 21 db0Ve)	(1,000,710)	(1,000,700)	7,310	(112,321)				1	

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

	AINA	AL I SIS OI	OPERAII	ON2 BY LI	INES OF E	DUSINESS	יטועועוטאוו -	AL LIFE II	NOUKANUC	<b>=</b> \ ' ' /			
		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)	11,387,237							597,533	10,789,704			
2.	Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3.	Net investment income	11,960,284							743,018	11,217,266			
4.	Amortization of Interest Maintenance Reserve (IMR)	244,504							22,075	222,429			
5.	Separate Accounts net gain from operations excluding unrealized gains or losses												
6.	Commissions and expense allowances on reinsurance ceded	4,025,440								4.025.440			
7.	Reserve adjustments on reinsurance ceded	(67,941,804)								(67,941,804)			
8.	Miscellaneous Income:									. , , .			
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	61,492,506							263,243	61,229,262			
	8.2 Charges and fees for deposit-type contracts												
1	8.3 Aggregate write-ins for miscellaneous income	908, 130							(3)	908, 133			
9.	Totals (Lines 1 to 8.3)	22,076,296							1,625,867	20,450,429			
10.	Death benefits	76,520,023							36,343	76,483,680			
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	397,745							7,463	390,281			
14.	Coupons, guaranteed annual pure endowments and similar benefits												
15.	Surrender benefits and withdrawals for life contracts	954,588							954.588				
16.	Group conversions												
17.	Interest and adjustments on contract or deposit-type contract funds	606,433							255	606 . 178			
18.	Payments on supplementary contracts with life contingencies												
19.	Increase in aggregate reserves for life and accident and health contracts	(101,502)							453.451	(554.953)			
	Totals (Lines 10 to 19)	78,377,286							1,452,100	76,925,186			
20.	Commissions on premiums, annuity considerations and deposit-type	10,377,200							1,452,100				
21.	contract funds (direct business only)	780,549							669	779,879			xxx
22.	Commissions and expense allowances on reinsurance assumed												
23.	General insurance expenses	7,055,251							807,468	6,247,783			
24.	Insurance taxes, licenses and fees, excluding federal income taxes	1, 152,099							276,213	875,886			
25.	Increase in loading on deferred and uncollected premiums	(9,474)							(9,474)				
26.	Net transfers to or (from) Separate Accounts net of reinsurance	(75,625,749)							(633,764)	(74,991,985)			
27.	Aggregate write-ins for deductions	(1,830,703)							(544)	(1,830,159)			
28.	Totals (Lines 20 to 27)	9,899,259							1,892,669	8,006,590			
29.	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	12,177,037							(266,802)	12,443,839			
30.	Dividends to policyholders and refunds to members									,, -90			
31.	Net gain from operations after dividends to policyholders, refunds to					1	İ		1				
J	members and before federal income taxes (Line 29 minus Line 30)	12, 177, 037	[				[		(266,802)	12,443,839			
32.	Federal income taxes incurred (excluding tax on capital gains)	1,680,735							(36,825)	1,717,561			
33.	Net gain from operations after dividends to policyholders, refunds to	1,000,100							(00,020)	1,111,001			
33.	members and federal income taxes and before realized capital gains or						1						
	(losses) (Line 31 minus Line 32)	10,496,302							(229,977)	10,726,279			
34.	Policies/certificates in force end of year	26,618							254	26.364			
<u> </u>	DETAILS OF WRITE-INS					1	İ		20.	,,			
00 201	Revenue sharing	1,030,361								1,030,361			
	Miscellaneous	696,299					·····		(3)	696.302			
	Management and administrative fees	(818,529)							(3)	(818,529)			
		(010,329)					····	•		(010,029)			
08.398		908, 130							(3)	908, 133			
08.399						1	<del> </del>		(3)				
2701.	Reinsurance ceded adjustment	(1,609,427)	<del> </del>	····			}	·		(1,609,427)		<del> </del>	
2702. 2703.	Ceded income on funds withheld	(221,275)							(544)	(220,732)			
2798.	Summary of remaining write-ins for Line 27 from overflow page												
2799.	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(1,830,703)							(544)	(1,830,159)			

<sup>(</sup>a) Include premium amounts for preneed plans included in Line 1

<sup>(</sup>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.

<sup>(</sup>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)

	/	. •. =. •	,,,,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				J. (7 (1 T C L			
		1	2	3	4	5	6 Variable Universal	7 Credit Life	8 Other Group Life	9 YRT Mortality
	Description for Manager (b)	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 250 047	XXX	XXX	XXX
	Amortization of Interest Maintenance Reserve (IMR)	353,047					353,047			
	Separate Accounts net gain from operations excluding unrealized gains or losses	12,209					12,209			
5.	Commissions and expense allowances on reinsurance ceded	0.074.000					0.074.000			
	·	6,371,086					6,371,086			
7.	Reserve adjustments on reinsurance ceded	(10,887,885)					(10,887,885)			
8.										
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	6,205,653					6,205,653			
	8.2 Charges and fees for deposit-type contracts									
	8.3 Aggregate write-ins for miscellaneous income	(1,023,040)					(1,023,040)			
9.	Totals (Lines 1 to 8.3)	1.031.069					1.031.069			
10.	Death benefits	1,031,009					1,031,009			
11.	Matured endowments (excluding guaranteed annual pure endowments)									
	Annuity benefits		XXX	XXX	XXX	XXX		XXX	XXX	VVV
12. 13.	Disability benefits and benefits under accident and health contracts	XXX	XXX				XXX			XXX
14.	Coupons, guaranteed annual pure endowments and similar benefits									
15.	Surrender benefits and withdrawals for life contracts									
16.	Group conversions									
	Interest and adjustments on contract or deposit-type contract funds	040 444					040 444			
17. 18.	Payments on supplementary contracts with life contingencies	216,414					216,414			
19.	Increase in aggregate reserves for life and accident and health contracts	120,000					120,000			
20.	Totals (Lines 10 to 19)	336,414					336,414			
21.	Commissions on premiums, annuity considerations and deposit-type contract funds (direct	1,149,627					1,149,627			XXX
22.	business only)	1, 149,021					1, 149,021			XXX
23.	General insurance expenses	527,955								
24.	Insurance taxes, licenses and fees, excluding federal income taxes	527, 955					11.750			
	Increase in loading on deferred and uncollected premiums	11,700					11,700			
25. 26.	Net transfers to or (from) Separate Accounts net of reinsurance	(0.000.400)					(0,000,400)			
	Aggregate write-ins for deductions	(9,626,102) 4.510					(9,626,102)			
27.		, -					4,510			
28.	Totals (Lines 20 to 27)	(7,595,846)					(7,595,846)			
	Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	8,626,915					8,626,915			
30.	Dividends to policyholders and refunds to members									
31.	Net gain from operations after dividends to policyholders, refunds to members and before	8,626,915					8,626,915			
32.	federal income taxes (Line 29 minus Line 30)	1.190.731					1.190.731			
	Net gain from operations after dividends to policyholders, refunds to members and federal	1, 190, 731					1, 190,731			
აა.	income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	7,436,185					7,436,185			
34	Policies/certificates in force end of year	3,041					3.041		+	
<u> </u>	DETAILS OF WRITE-INS	0,041					0,041			
08 301	Management and administrative fees	(1.023.039)					(1.023.039)			
	Miscellaneous	(1,023,039)					(1)			
08.302.	misorializuas	(1)					( 1)			
	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)	/1 000 040)					(1,023,040)			
		(1,023,040)								
2701. 2702.	* '	4,510					4,510			
2702. 2703.										
	Commence of annualising orbitalism for Line 0.7 from a conflavorage									
	Summary of remaining write-ins for Line 27 from overflow page	4.510								
	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	4,510					4,510			

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

<sup>(</sup>b) Include premium amounts for preneed plans included in Line 1 ......

<sup>(</sup>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.

<sup>(</sup>d) 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 - INDIVIDUAL ANNUITIES (a)

1. Premiums for individual annuity contracts 2. Considerations for supplementary contracts with life contingencies 3. Net investment income. 4. Amortization of Interest Maintenance Reserve (IMR). 5. Separate Accounts net gain from operations excluding unrealized gains or losses. 6. Commissions and expense allowances on reinsurance ceded. 7. Reserve adjustments on reinsurance ceded. 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts. 8.3 Aggregate write-ins for miscellaneous income. 9. Totals (Lines 1 to 8.3)	Total	2 Fixed Annuities  XXX	3 Indexed Annuities XXX	Variable Annuities with Guarantees	5 Variable Annuities Without Guarantees  XXX	Life Contingent Payout (Immediate and Annuitizations)	Other Annuities  XXX  379,328  13,118
2. Considerations for supplementary contracts with life contingencies 3. Net investment income 4. Amortization of Interest Maintenance Reserve (IMR) 5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits and benefits under accident and health contracts 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		XXX		with Guarantees	Without Guarantees	and Annuitizations)	XXX 
2. Considerations for supplementary contracts with life contingencies 3. Net investment income 4. Amortization of Interest Maintenance Reserve (IMR) 5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits and benefits under accident and health contracts 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		XXX				,	XXX 
2. Considerations for supplementary contracts with life contingencies 3. Net investment income 4. Amortization of Interest Maintenance Reserve (IMR) 5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits and benefits under accident and health contracts 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			XXX	129,209 4,468		302,218	
3. Net investment income 4. Amortization of Interest Maintenance Reserve (IMR) 5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits 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			xxx	129,209 4,468	XXX	302,218	
4. Amortization of Interest Maintenance Reserve (IMR) 5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits 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				4,468			· ·
5. Separate Accounts net gain from operations excluding unrealized gains or losses 6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits 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							13,118
6. Commissions and expense allowances on reinsurance ceded 7. Reserve adjustments on reinsurance ceded 8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits 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	87,886 1,531,038			E00 044			
7. Reserve adjustments on reinsurance ceded	87,886 1,531,038			500 011			
8. Miscellaneous Income: 8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3)	87,886 1,531,038			500 011		l l	
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts 8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3) 10. Death benefits 11. Matured endowments (excluding guaranteed annual pure endowments) 12. Annuity benefits 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	87,886 1,531,038			500 011			
8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income 9. Totals (Lines 1 to 8.3)	87,886 1,531,038			EU0 044			
8.3 Aggregate write-ins for miscellaneous income  9. Totals (Lines 1 to 8.3)  10. Death benefits  11. Matured endowments (excluding guaranteed annual pure endowments)  12. Annuity benefits  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	1,531,038						
9. Totals (Lines 1 to 8.3)	1,531,038						
10. Death benefits			!	87,888			(2)
10. Death benefits	1,003,671			836.376		302.218	392.444
11. Matured endowments (excluding guaranteed annual pure endowments)  12. Annuity benefits  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	1,003,671					,	
12. Annuity benefits	1,003,671						
Disability benefits and benefits under accident and health contracts     Coupons, guaranteed annual pure endowments and similar benefits     Surrender benefits and withdrawals for life contracts     Group conversions     Interest and adjustments on contract or deposit-type contract funds	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,003,671			
Coupons, guaranteed annual pure endowments and similar benefits     Surrender benefits and withdrawals for life contracts     Group conversions     Interest and adjustments on contract or deposit-type contract funds				1,000,011			
Surrender benefits and withdrawals for life contracts     Group conversions     Interest and adjustments on contract or deposit-type contract funds							
Group conversions     Interest and adjustments on contract or deposit-type contract funds	3.344.768			3.344.768			
17. Interest and adjustments on contract or deposit-type contract funds				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
, , , , , , , , , , , , , , , , , , , ,	419.113			3.831			415.282
	42.724					42.724	
Increase in aggregate reserves for life and accident and health contracts	142.397			142.397			
20. Totals (Lines 10 to 19)	4,952,673		+	4.494.666		42.724	415.282
20. Totals (Lines 10 to 19)  21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	42,037			42.037		42,724	4 10,202
	42,007			42,001			
·	183.817			89.354			94.463
23. General insurance expenses	10.508			6.650			3.858
24. Insurance taxes, licenses and fees, excluding federal income taxes					·		
25. Increase in loading on deferred and uncollected premiums	(4,245,663)			(4,245,663)	ļ		
26. Net transfers to or (from) Separate Accounts net of reinsurance.  27. Aggregate write-ins for deductions	(4,245,663) (172,521)			(172,525)		E	
	. , ,		-	. , ,		10.700	E40, 000
28. Totals (Lines 20 to 27)	770,851			214,519		42,729	513,603
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	760 , 188			621,858	·	259,489	(121, 159)
30. Dividends to policyholders and refunds to members			<u> </u>	<del>                                     </del>			
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)				621,858	ļ	259,489	(121, 159)
32. Federal income taxes incurred (excluding tax on capital gains)	104,925		<u> </u>	85,832			19,093
33. Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital	055 000			500,000		050 400	(440, 050)
gains or (losses) (Line 31 minus Line 32)	655,263			536,026		259,489	(140,252)
34. Policies/certificates in force end of year	598			500			98
DETAILS OF WRITE-INS			!				
08.301. Revenue sharing	87,889			87,889			
08.302. Miscellaneous	(3)			(1)	ļ		(2)
08.303.					<del> </del>		
08.398. Summary of remaining write-ins for Line 8.3 from overflow page					ļ		
08.399. Totals (Lines 08.301 thru 08.303 plus 08.398) (Line 8.3 above)	87,886			87,888			(2)
2701. Miscellaneous charges to operations	(172,521)			(172,525)		5	
2702.				ļ	1		I
2703.		1	1	1	t		
2798. Summary of remaining write-ins for Line 27 from overflow page		+	· <del> </del>				
2799. Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	(172.521)			(172.525)		5	

(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 ${\bf N} \ {\bf O} \ {\bf N} \ {\bf E}$

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

### 7.

### ANNUAL STATEMENT FOR THE YEAR 2021 OF THE MML Bay State Life Insurance Company

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

ANALI		TILAUL III	INCOLINA	LO DOMIN		AIL - IIIDIV	IDUAL LIF	LINOUNA	100			
	1	2	3	4	5	6	7	8	9	10	11	12
	Total	Industrial Life	Whole Life	Term Life	Indexed Life	Universal Life	Universal Life With Secondary Guarantees	Variable Life	Variable Universal Life	Credit Life (b)	Other Individual	YRT Mortality Risk Only
Involving Life or Disability Contingencies (Reserves)	Total	ilidastriai Elic	WHOIC LIIC	TOTAL EIG	IIIdexed Elle	OTHVCISAL EIIC	Guarantees	Variable Life	Oniversal Elic	(N/X11atermai)	LIIC	Tribit Offiy
(Net of Reinsurance Ceded)												
Reserve December 31 of prior year	138,762,887							2,946,535	135,816,352			
Tabular net premiums or considerations	1,718,849							597,533	1,121,316			
Present value of disability claims incurred									, .= ., 0 . 0			
Tabular interest	4,645,076							96,411	4,548,665			
Tabular less actual reserve released	, ,,							,				
6. Increase in reserve on account of change in valuation basis												
Change in excess of VM-20 deterministic/stochastic reserve over     net premium reserve		XXX								XXX		
7. Other increases (net)	(2,731,544)							58,747	(2,790,291)			
8. Totals (Lines 1 to 7)	142,395,268							3,699,226	138,696,042			
9. Tabular cost	26,570,175							218,874	26,351,301			
10. Reserves released by death	57,433,133							, , , , , , , , , , , , , , , , , , ,	57,433,133			
11. Reserves released by other terminations (net)	43, 187, 244							977,373	42,209,871			
Annuity, supplementary contract and disability payments involving life contingencies												
13. Net transfers to or (from) Separate Accounts	(123,456,669)							(897,007)	(122,559,662)			
14. Total Deductions (Lines 9 to 13)	3,733,883							299,240	3,434,643			
15. Reserve December 31 of current year	138,661,385							3,399,986	135,261,399			
Cash Surrender Value and Policy Loans												
16. CSV Ending balance December 31, current year	145, 107, 552							3,055,054	142,052,498			
17. Amount Available for Policy Loans Based upon Line 16 CSV	116,086,041							2,444,043	113,641,998			

<sup>(</sup>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.

<sup>(</sup>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 2021 OF THE MML Bay State Life Insurance Company

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

			(IN/A Fraterii	ai <i>j</i>					
	1	2	3	4	5	6	7	8	9
						Variable	<b>-</b>	Other	YRT
	Total	\\/\bala   :fa	T1:5-	\/:-bl-1:f-	Hairran al Life	Universal	Credit Life (b)	Group Life	Mortality
Investigation Life on Disability Continues in (Documen)	lotai	Whole Life	Term Life	Variable Life	Universal Life	Life	Life (5)	Lite	Risk Only
Involving Life or Disability Contingencies (Reserves)									
(Net of Reinsurance Ceded)  1. Reserve December 31 of prior year	1,850,000					1.850.000			
· · ·						1,850,000			
Tabular net premiums or considerations									
Present value of disability claims incurred	55.500					55.500			
4. Tabular interest									
5. Tabular less actual reserve released									
6. Increase in reserve on account of change in valuation basis						450 477			
7. Other increases (net)	158,477					158,477			
8. Totals (Lines 1 to 7)						2,063,977			
9. Tabular cost						5,079,200			
10. Reserves released by death						10,022,654			
11. Reserves released by other terminations (net)									
Annuity, supplementary contract and disability payments involving life contingencies									
13. Net transfers to or (from) Separate Accounts	(15,007,877)					(15,007,877)			
14. Total Deductions (Lines 9 to 13)	93,977					93,977			
15. Reserve December 31 of current year	1,970,000					1,970,000			
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									

<sup>(</sup>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 2021 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	Payout (Immediate	
	Total	Fixed Annuities	Indexed Annuities	with Guarantees	without Guarantees	and Annuitizations)	Other Annuities
Involving Life or Disability Contingencies (Reserves)							
(Net of Reinsurance Ceded)							
Reserve December 31 of prior year	2,512,094			2,512,094			
Tabular net premiums or considerations	16,000			16,000			
Present value of disability claims incurred		XXX	XXX	XXX	XXX	XXX	XXX
4. Tabular interest	93,615			93,615			
Tabular less actual reserve released	(349,860)			(349,860)	)		
Increase in reserve on account of change in valuation basis							
7. Other increases (net)				324,749			
8. Totals (Lines 1 to 7)	2,596,598			2,596,598			
9. Tabular cost							
10. Reserves released by death	XXX	XXX	XXX	XXX	XXX	XXX	XXX
11. Reserves released by other terminations (net)				3,344,768			
12. Annuity, supplementary contract and disability payments involving life contingencies	845,511			845,511			
13. Net transfers to or (from) Separate Accounts	(4,248,171)			(4,248,171)			
14. Total Deductions (Lines 9 to 13)	(57,892)			(57,892)			
15. Reserve December 31 of current year	2,654,490			2,654,490			
Cash Surrender Value and Policy Loans							·
16. CSV Ending balance December 31, current year	2,207,757			2,207,757			
17. Amount Available for Policy Loans Based upon Line 16 CSV							

<sup>(</sup>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)

		(IWA I Idicilie	41 <i>)</i>					
		1		Defe	erred		6	7
			2	3	4	5	Life Contingent	
		<b>-</b>			Variable Annuities	Variable Annuities	Payout (Immediate	0.11
		Total	Fixed Annuities	Indexed Annuities	with Guarantees	without Guarantees	and Annuitizations)	Other Annuities
	Involving Life or Disability Contingencies (Reserves)							
	(Net of Reinsurance Ceded)							
1.	Reserve December 31 of prior year							
2.	Tabular net premiums or considerations							
3.	Present value of disability claims incurred	XXX	XXX	XXX	XXX	XXX	XXX	XXX
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	XXX		XXX	XXX	XXX	XXX	XXX
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							

<sup>(</sup>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	_	ıa Year
U.S. Government bonds					(a)21,437		
1.1 Bonds exempt from U.S. tax							
1.2 Other bonds (unaffiliated)					(a)8,671,234		
1.3 Bonds of affiliates							
2.1 Preferred stocks (unaffiliated)					(b)		
2.11 Preferred stocks of affiliates					(b)		
2.2 Common stocks (unaffiliated)							7,322
2.21 Common stocks of affiliates							
Mortgage loans					(c)83,883		.83,883
4. Real estate					(d)		
5 Contract loans					4,939,904	4,8	389,829
6 Cash, cash equivalents and sho	ort-term investments				(e)245,379	2	245,379
7 Derivative instruments							
Other invested assets							
<ol><li>Aggregate write-ins for investme</li></ol>	ent income						
10. Total gross investment income					13,961,970		789,806
11. Investment expenses						(g)	961,884
12. Investment taxes, licenses and f							
13. Interest expense						(h)	
14. Depreciation on real estate and	other invested assets					(i)	
15. Aggregate write-ins for deduction							
16. Total deductions (Lines 11 throu							
17. Net investment income (Line 10	minus Line 16)					12,8	821,868
DETAILS OF WRITE-INS							
0901.							
0902.							
0903.							
0998. Summary of remaining write-ins	for Line 9 from overflow page	ge					
0999. Totals (Lines 0901 thru 0903 plu	us 0998) (Line 9, above)						
1501.							
1502.							
1503.							
1598. Summary of remaining write-ins	for Line 15 from overflow pa	age					
1599. Totals (Lines 1501 thru 1503 plu	us 1598) (Line 15, above)						
(a) Includes \$513,258 accrua	al of discount less \$	293,028 amortizat	ion of premium and less	s \$3, 1	48 paid for accrued into	erest on purcha	ases.
(b) Includes \$ accrua							
(c) Includes \$(6,782) accrua	al of discount less \$	1,949 amortizat	ion of premium and less	s\$	paid for accrued into	erest on purcha	ases.
(d) Includes \$ for co	ompany's occupancy of its o	wn buildings; and exc	ludes \$	interest on en	cumbrances.		
(e) Includes \$245,379 accrua	al of discount less \$	amortizat	ion of premium and less	s\$	paid for accrued into	erest on purcha	ases.
(f) Includes \$ accrua	al of discount less \$	amortiza	tion of premium.		•		
(g) Includes \$ invest				nd fees, excluding fe	ederal income taxes, att	ibutable to	
segregated and Separate Accounts.							
(h) Includes \$ interes	st on surplus notes and \$	inte	rest on capital notes.				

**EXHIBIT OF CAPITAL GAINS (LOSSES)** 

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

			2	3		
		1	2	3	4	5
				Total Realized	Change in	Change in Unrealized
		Realized Gain (Loss)	Other Realized	Capital Gain (Loss)	Unrealized	Foreign Exchange
		On Sales or Maturity	Adjustments	(Columns 1 + 2)	Capital Gain (Loss)	Capital Gain (Loss)
1.	U.S. Government bonds					
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)	1, 106, 259	(11,926)	1,094,333	17,513	
1.3	Bonds of affiliates					
2.1	Preferred stocks (unaffiliated)					
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)				7,419	
2.21	Common stocks of affiliates					
3.	Mortgage loans					
4.	Real estate					
5.	Contract loans					
6.	Cash, cash equivalents and short-term investments	558		558		
7.	Derivative instruments					
8.	Other invested assets					
9.	Aggregate write-ins for capital gains (losses)					
10.	Total capital gains (losses)	1,106,817	(11,926)	1,094,891	24,932	
	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)					

#### **'**

### ANNUAL STATEMENT FOR THE YEAR 2021 OF THE MML Bay State Life Insurance Company

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

	EXHIBIT - 1 PART	-	TONIO AND	AIIIOIII	CONSIDE	NATIONS I	Insura		LITI AILD	IILALIII CO	JITTI NAOT	<b>.</b>	
		1	2	Ordir	narv	5	Gro			Accident and Health		11	12
		·		3	4		6	7 7	8	9	10	Aggregate of All	Fraternal
		Total	Industrial Life	Life Insurance	Individual Annuities	Credit Life (Group and Individual)	Life Insurance	Annuities	Group	Credit (Group and Individual)	Other	Other Lines of Business	(Fraternal Benefit Societies Only)
	FIRST YEAR (other than single)	rotar	madotrial Erio	Life insurance	7411141463	and marriadal)	Life insurance	7 till title 5	Group	individual)	Outer	Buomicoo	Cocionico Ciny)
<ol> <li>Uncol</li> </ol>													
<ol><li>Deferi</li></ol>	red and accrued												
<ol> <li>Deferior</li> <li>3.1 Di</li> </ol>	red , accrued and uncollected: irect												
	einsurance assumed												
	einsurance ceded												
	et (Line 1 + Line 2)												
4. Advar													
	3.4 - Line 4												
6. Collec	cted during year:												
	einsurance assumed												
	einsurance ceded	54		54									
6.4 Ne		(54		(54)					***************************************				
	5 + Line 6.4	(54		(54)									
8. Prior	year (uncollected + deferred and accrued - advance)		,	(0.)									
	vear premiums and considerations:												
	einsurance assumed												
	einsurance ceded	54		54									
	et (Line 7 - Line 8)	(54		(54)									
	SINGLE	,		/									
10. Single	e premiums and considerations:												
10.1 [	Direct												
	Reinsurance assumed												
	Reinsurance ceded												
10.4 N													
44 11	RENEWAL												
11. Uncol		/ 44 000 070		(44,000,070)									
	red and accrued	(11,226,670	)	(11,226,670)									
	red, accrued and uncollected: Direct	(10,055,259	,	(7,422,741)			(2,632,518)						
	Reinsurance assumed	(10,000,209	/	(1,422,141).			(2,032,310).						
	Reinsurance ceded	1, 171, 411		3,803,929			(2,632,518)						
	Net (Line 11 + Line 12)	(11,226,670		(11,226,670)			(2,002,010).		•				
14. Advar		(11,220,070	,,	(11,220,070).									
	13.4 - Line 14	(11,226,670	)	(11,226,670)									
	cted during year:	. , ,											
16.1 [	Direct	29,357,058		29,341,058	16,000								
	Reinsurance assumed												
	Reinsurance ceded	26, 186, 951		26,186,951									
16.4 N		3, 170, 107		3, 154, 107	16,000								
17. Line 1	15 + Line 16.4	(8,056,563		(8,072,563).	16,000								
18. Prior	year (uncollected + deferred and accrued - advance)	(19,459,854	)	(19,459,854).									
	wal premiums and considerations:	00 004 000		00 000 005	40.000		040 070						
19.1 [	Orrect	39,364,908		39,038,035	16,000		310,873						
	Reinsurance assumed	27,961,617		27.650.744			310,873						
19.3 F	Net (Line 17 - Line 18)	11,403,291		11,387,291	16,000								
13.41	TOTAL	11,700,231		11,007,231	10,000								
20 Total	premiums and annuity considerations:												
20.1 [	Direct	39,364,908		39,038,035	16,000		310,873		L				
	Reinsurance assumed												
	Reinsurance ceded	27,961,671		27,650,798			310,873						
20.41	Net (Lines 9.4 + 10.4 + 19.4)	11,403,237		11,387,237	16,000								

### $\stackrel{\rightharpoonup}{\sim}$

### ANNUAL STATEMENT FOR THE YEAR 2021 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)

			IOL ALLO	WANCES A	IND COMIN		Insur		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	··y <i>)</i>			
		1	2	Ordin	ary	5	Gro	oup		Accident and Health		11	12
		Total	Industrial Life	3 Life Insurance	4 Individual Annuities	Credit Life (Group and Individual)	6 Life Insurance	7 Annuities	8 Group	9 Credit (Group and Individual)	10 Other	Aggregate of All Other Lines of Business	Fraternal (Fraternal Benefit Societies Only)
	POLICYHOLDERS' DIVIDENDS, REFUNDS TO MEMBERS AND COUPONS APPLIED (included in Part 1)												,,
21	. To pay renewal premiums												
22	2. All other												
	REINSURANCE COMMISSIONS AND EXPENSE ALLOWANCES INCURRED												
23	B. 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	5. Renewal:												
	25.1 Reinsurance ceded	10,396,525		4,025,440			6,371,085						
	25.2 Reinsurance assumed						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	25.3 Net ceded less assumed	10,396,525		4.025.440			6,371,085						
26	5. Totals:	, , , , , , ,		, -,			, , , ,						
	26.1 Reinsurance ceded (Page 6, Line 6)	10,396,525		4.025.440			6,371,085						
	26.2 Reinsurance assumed (Page 6, Line 22)												
	26.3 Net ceded less assumed	10,396,525		4,025,440			6,371,085						
	COMMISSIONS INCURRED (direct business only)	10,000,020		, 020, 440									
27	'. First year (other than single)	16,490		16,490									
	B. Single	10, 100		10, 100									
	o. Renewal	1,955,722		764,059	42,037		1,149,626						
		1,333,722			42,037		1, 145,020						
	Deposit-type contract funds	1 070 010		700 540	40.003		1 110 000						
31	. Totals (to agree with Page 6, Line 21)	1,972,212		780,549	42,037		1,149,626						1

### **EXHIBIT 2 - GENERAL EXPENSES**

						-	^	_
	_	4	Insur			5	6	7
		1	Accident a		All Other Lines of			
		Life	2 Cost Containment	3 All Other	Business	Investment	Fraternal	Total
1.	Rent	210.285	Coor Containment	7 til Ottlei	Buomoco	4,852	1 Tatorria	215, 137
		3,430,139				79,152		3,509,291
	Contributions for benefit plans for employees					5,762		255,472
						8.029		355.965
3.12	Contributions for benefit plans for agents Payments to employees under non-funded benefit	347 ,930				0,029		
3.21	plans							
3.22	Payments to agents under non-funded benefit plans							
3 31	Other employee welfare	25, 225				582		25.807
	Other agent welfare							23,007
						4 540		
		67,117				1,549		68,666
	Medical examination fees					1,275		56,544
	Inspection report fees							
	Fees of public accountants and consulting actuaries	14,958				345		15,303
	Expense of investigation and settlement of policy claims	12,356				285		12,641
5.1	Traveling expenses	24,952				576		25,528
	Advertising					4.038		179.041
5.3	Postage, express, telegraph and telephone	55.999				1.292		57,291
		30,042						30,735
	Cost or depreciation of furniture and equipment					2,005		88,894
		67.002				1,546		68.548
	Cost or depreciation of EDP equipment and software	,				7.237		320.875
6.1	Books and periodicals	20,000						29,431
						664		
		17,253				398		17,651
	Insurance, except on real estate					867		38,441
	Miscellaneous losses					932		41,325
	Collection and bank service charges					405		17,954
6.6	Sundry general expenses	11, 167				258		11,424
6.7	Group service and administration fees	837,020				19,315		856,335
	Reimbursements by uninsured plans					, ,		, , , , , , , , , , , , , , , , , , , ,
		850,694				19,630		870.324
	Agents' balances charged off (less \$					10,000		
7.0	\$ recovered)							
		26, 114				603		26,717
	Official publication (Fraternal Benefit Societies Only)	XXX	xxx	XXX	xxx	xxx		
8.2	Expense of supreme lodge meetings (Fraternal							
		XXX	XXX	XXX	XXX	XXX		
9.1								
	Investment expenses not included elsewhere					797,920		797,920
	Aggregate write-ins for expenses	733,972				1,674		735,646
10.	General expenses incurred	7,767,022				961,884	(b)	(a)8,728,906
11.	General expenses unpaid Dec. 31, prior year	1,907,804				261,318		2, 169, 123
	General expenses unpaid Dec. 31, current year	3 . 835 . 199				474.959		4.310.158
13.	Amounts receivable relating to uninsured plans, prior year	, , , , , , , , , , , , , , , , , , , ,				.,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
14.	Amounts receivable relating to uninsured plans, current year							
15.	General expenses paid during year (Lines 10+11- 12-13+14)	5.839.627				748.243		6.587.870
	DETAILS OF WRITE-INS	5,005,021			+	170,240		0,507,670
00 201	Management Services Income	661,432						661,432
						4 074		, ,
	Miscellaneous	72,541	ļ		<b></b>	1,674		74,215
09.303. 09.398	Summary of remaining write-ins for Line 9.3 from				-			
JJ.JJU.					I			
	overflow page							

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

			Insurance		4	5	6
		1 Life	2 Accident and Health	3 All Other Lines of Business	Investment	Fraternal	Total
1.	Real estate taxes						
2.	State insurance department licenses and fees	82, 173					82, 173
3.	State taxes on premiums	413,994					413,994
4.	Other state taxes, including \$						
	for employee benefits	136,512					136,512
5.	U.S. Social Security taxes	541,677			6,054		547,731
6.	All other taxes						
7.	Taxes, licenses and fees incurred	1, 174, 356			6.054		1, 180, 410
8.	Taxes, licenses and fees unpaid Dec. 31, prior year	170,014			1,275		171,288
9.	Taxes, licenses and fees unpaid Dec. 31, current year	136, 105			702		136,806
10.	Taxes, licenses and fees paid during year (Lines 7 + 8 - 9)	1,208,265			6,627		1,214,892

### **EXHIBIT 4 - DIVIDENDS OR REFUNDS**

		1 Life	2 Accident and Health
1.	Applied to pay renewal premiums	Lile	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.	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.	Provision for deferred dividend contracts		
14.	Amount provisionally held for deferred dividend contract bot in the standard summer and		
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 (Group and	6
Valuation Standard	Total (a)	Industrial	Ordinary	Individual)	Group
0100001. 58 CET NLP 4.00%		maaatiai			Стоир
0100002. 58 CSO CRVM 4.50%					
0100003. 58 CS0 Mod CRVM 4.00%	11 545				
0100004. 80 CSO CRVM 4.50%					
0100005. 80 CSO CRVM 5.50%			, , ,		
0100006. 80 CSO NLP 4.00%			, ,		
0100007. 2001 CSO CRVM 4.00%					
0100008. 80 CSO 3.00%					1.970.000
0100009. 80 CSO 4.00%					
0199997. Totals (Gross)	150,763,273		148,793,273		1.970.000
0199998. Reinsurance ceded	20,879,534		20.879.534		1,970,000
0199999. Life Insurance: Totals (Net)	129.883.739		127.913.739		1.970.000
0200001. 1994 MGDB Table TY/FIG DEF		100/		2007	,- ,
0200002. a-2000 4.50% BOTH				XXX	
0200003. a-2012 1.50% BOTH		XXX		XXX	
0200004. a-2012 1.75% B0TH		XXX		······································	
0200005. a-2012 2.25% BOTH		XXX			
0200006. a-2012 3.00% B0TH		XXX		XXX	
0200007. a-2012 3.50% B0TH		XXX			
0200008. a-2012 3.75% B0TH		XXX		XXX	
0200009. a-2012 4.00% B0TH		XXX			
0299997. Totals (Gross)	2,651,201	XXX	2,651,201	XXX	
0299998. Reinsurance ceded		XXX		XXX	
0299999. Annuities: Totals (Net)	2,651,201	XXX	2,651,201	XXX	
0399998. Reinsurance ceded					
0399999. SCWLC: Totals (Net)					
0400001. 59 ADB & 58 CSO 4.50%			1,912		
0499997. Totals (Gross)	1,912		1,912		
0499998. Reinsurance ceded					
0499999. Accidental Death Benefits: Totals (Net)	1,912		1,912		
0500001. 35-39 INTERCO + 2001 CSO 4.00%	27,688		27,688		
0500002. 35-39 INTERCO + 58 CSO 3.50%	2,203		2,203		
0599997. Totals (Gross)	29,891		29,891		
0599998. Reinsurance ceded					
0599999. Disability-Active Lives: Totals (Net)	29,891		29.891		
0600001. MOD 52 DISAB TABLE BEN 5 4.00%			275,046		
0600002. MOD 52 DISAB TABLE BEN 5 4.50%	,				
0600003. MOD 52 DISAB TABLE BEN 5 5.50%	, , , , , , , , , , , , , , , , , , , ,		2,049,328		
0699997. Totals (Gross)	8,351,308		8,351,308		
0699998. Reinsurance ceded	0,001,000		5,551,000		
0699999. Disability-Disabled Lives: Totals (Net)	8,351,308		8,351,308		
0700001. MIN. DEATH BENEFIT	122,273			+	
0700001. WIN. DEATH BENEFIT					
0700002. FOLTOT EDANS					
0700004. VLI COI			3,289		
0700005. VM-21 Reserve					
0799997. Totals (Gross) 0799998. Reinsurance ceded	2,367,824		2,367,824		
	0.007.007		0.007.001		
0799999. Miscellaneous Reserves: Totals (Net)	2,367,824		2,367,824		
9999999. Totals (Net) - Page 3, Line 1 a) Included in the above table are amounts of deposit-type of	143,285,875		141,315,875		1,970,000

(a) Included in the above table are amounts	of deposit-type contracts that originally contained	ed 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 Continger	ncies \$;
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?	. Yo	es [	]	No [	Χ]
1.2	If not, state which kind is issued.  Non-participating					
2.1	Does the reporting entity at present issue both participating and non-participating contracts?		1 20	1	No [	V 1
2.2	If not, state which kind is issued.	. 10	29 [	1	INO [	v ]
2.2	Non-participating					
3.	Does the reporting entity at present issue or have in force contracts that contain non-guaranteed elements?	γ	es [	X ]	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.		·		-	
4.	Has the reporting entity any assessment or stipulated premium contracts in force?	Y	es [	]	No [	Χ]
	If so, state:					
	4.1 Amount of insurance?	j				
	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?	. Ye			No [	
	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:  \$\text{\$\text{\$}\$}\$					
	Attach statement of methods employed in their valuation.					
7.	Does the reporting entity have any Synthetic GIC contracts or agreements in effect as of December 31 of the current year?	. Y	es [	]	No [	Χ]
	7.1 If yes, state the total dollar amount of assets covered by these contracts or agreements\$	; <u> </u>				
	7.2 Specify the basis (fair value, amortized cost, etc.) for determining the amount:					
	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?					
	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: \$	<b>5</b>				
	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?	_ γ	es [	]	No [	Х ]
	9.1 If yes, state the total dollar amount of any account value associated with these contracts, agreements or riders:\$	5				
	9.2 State the amount of reserves established for this business: \$	<b>;</b>				
	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 **NONE**

### **EXHIBIT 7 - DEPOSIT TYPE CONTRACTS**

EXINDIT / BEI O		10.0				
	1	2	3	4	5 Dividend	6 Premium and
	Total	Guaranteed Interest Contracts	Annuities Certain	Supplemental Contracts	Accumulations or Refunds	Other Deposit Funds
Balance at the beginning of the year before reinsurance	13,771,784		284,612	13,487,172		
Deposits received during the year	4,004,620			4,004,620		
Investment earnings credited to the account	415,282			415,282		
Other net change in reserves			(75,210)	75,210		
Fees and other charges assessed						
6. Surrender charges						
7. Net surrender or withdrawal payments	2,211,156			2,211,156		
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)	15,980,530		209,402	15,771,128		
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)						
14. Net balance at the end of current year after reinsurance (Lines 9 + 13)	15,980,530		209,402	15,771,128		

### **EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS**

PART 1 - Liability End of Current Year

		1	2	Ordinary		6	6 Group			Accident and Health			
		Total	Industrial Life	3 Life Insurance	4 Individual Annuities	5 Supplementary Contracts	Credit Life (Group and Individual)	7 Life Insurance	8 Annuities	9 Group	10 Credit (Group and Individual)	11 Other	
. Due and unpaid:		rotai	maddiai End	Life insurance	marviada 7 milatics	Contracts	una marviadar)	Life insurance	7411141403	Croup	maividualy	Other	
. Duo ana anpaia.	1.1 Direct												
	1.2 Reinsurance assumed												
	1.3 Reinsurance ceded												
	1.4 Net												
In course of settlement:													
2.1 Resisted	2.11 Direct												
	2.12 Reinsurance assumed												
	2.13 Reinsurance ceded												
	2.14 Net			(b)	(b)		(b)	(b)					
2.2 Other	2.21 Direct	21,695,222		15,485,042				6,210,180					
	2.22 Reinsurance assumed												
	2.23 Reinsurance ceded	12,668,679		6,458,499				6,210,180					
	2.24 Net	9,026,543		(b)9,026,543	(b)		(b)	(b)		(b)	(b)	(b)	
Incurred but unreported:													
	3.1 Direct	1,397,747		1,397,747									
	3.2 Reinsurance assumed												
	3.3 Reinsurance ceded	496,000		496,000									
	3.4 Net	901,747		(b)901,747	(b)		(b)	(b)		(b)	(b)	(b)	
TOTALS	4.1 Direct	23,092,969		16,882,789				6,210,180					
	4.2 Reinsurance assumed												
	4.3 Reinsurance ceded	13, 164, 679		6,954,499				6,210,180					
	4.4 Net	9,928,290	(a)	(a) 9,928,290				(a)					

a) Including matured endowments (but not guaranteed annual pure end	dowments) unpaid amounting to \$	in Column 2, \$	in Column 3 and \$	in Column 7.		
b) Include only portion of disability and accident and health claim liabilit	ties applicable to assumed "accrued" benefits. Reserves (	including reinsurance assumed	and net of reinsurance ceded) for unaccrued	benefits for Ordinary Life Insurance \$		
Individual Annuities \$, Credit Life (Group an	nd Individual) \$, and Group Life	\$ , are in	ncluded in Page 3, Line 1, (See Exhibit 5, See	ction on Disability Disabled Lives); and for O	Group Accident and Health \$	
Credit (Group and Individual) Accident and Health \$	and Other Assident and Health \$	are included in Page	o 3 Lino 2 (Soo Eyhibit 6 Claim Poson(o)			

### **EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS**

PART 2 - Incurred During the Year

						2 - Incurred During	file real	0	A:			
		1	2		Ordinary		6	Gro 7	oup	•	Accident and Health	4.4
			Industrial Life	3 Life Insurance	4	5 Supplementary	Credit Life (Group	/ Life Insurance	ď	9	10 Credit (Group	11
		Total	(a)	(b)	Individual Annuities	Contracts	and Individual)	(c)	Annuities	Group	and Individual)	Other
1. 5	Settlements During the Year:											
1	1.1 Direct	125,095,286		111,788,809	1,003,671	42,724		12,260,082				
1	1.2 Reinsurance assumed	,										
1	1.3 Reinsurance ceded	49,281,275		35, 185, 174				14,096,101				
1	1.4 Net	(d)75,814,011		76,603,635	1,003,671	42,724		(1,836,019)				
	Liability December 31, current year from Part 1:											
2	2.1 Direct	23,092,969		16,882,789				6,210,180				
2	2.2 Reinsurance assumed	,										
2	2.3 Reinsurance ceded	13, 164, 679		6,954,499				6,210,180				
2	2.4 Net	9,928,290		9,928,290								
	Amounts recoverable from reinsurers December 31, current											
	year	7,715,214		4,400,239				3,314,975				
	iability December 31, prior year:											
	4.1 Direct	19,989,824		15,803,775				4,186,049				
	1.2 Reinsurance assumed											
	1.3 Reinsurance ceded	12,447,427		8,261,378				4, 186, 049				
	1.4 Net	7,542,397		7,542,397								
	Amounts recoverable from reinsurers December 31, prior year	7,479,473		2,328,479				5,150,994				
	ncurred Benefits											
6	6.1 Direct	128,198,431		112,867,823	1,003,671	42,724		14,284,213				
6	6.2 Reinsurance assumed											
6	6.3 Reinsurance ceded	50,234,268		35,950,055				14,284,213				
6	6.4 Net	77,964,163		76,917,768	1,003,671	42,724						

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

### **EXHIBIT OF NON-ADMITTED ASSETS**

		Current Year Total Nonadmitted Assets	Prior Year Total Nonadmitted Assets	Change in Total Nonadmitted Assets (Col. 2 - Col. 1)
	Bonds (Schedule D)		Nonadiffited Assets	(COI. 2 - COI. 1)
. 2	Stocks (Schedule D):	-		
<u>-</u> .	2.1 Preferred stocks			
ī	2.2 Common stocks			
3.		-		
J.	Mortgage loans on real estate (Schedule B):			
1	3.1 First liens			
	3.2 Other than first liens			
4.	Real estate (Schedule A):			
ī	4.1 Properties occupied by the company			<del></del>
1	4.2 Properties held for the production of income.			
	4.3 Properties held for sale			
	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	18,814		(18,814)
15.	Premiums and considerations:			
1	15.1 Uncollected premiums and agents' balances in the course of collection	-	8,783	8,783
ī	15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due			
1	15.3 Accrued retrospective premiums and contracts subject to redetermination			
16.	Reinsurance:			
ī	16.1 Amounts recoverable from reinsurers			
1	16.2 Funds held by or deposited with reinsured companies			
1	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	2,200,318	2,227,424	27, 106
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			
	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)		2,236,208	17,076
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts			
	Total (Lines 26 and 27)	2,219,132	2,236,208	17,076
	DETAILS OF WRITE-INS	_,,	_,,	,
1101.	52.7/125 St. 111.1/2 1110			
1102.				
1102.				
1103.	Summary of remaining write ins for Line 11 from overflow page			
	Summary of remaining write-ins for Line 11 from overflow page			
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)			
2501.				
2502.				
2503.				
2598.	Summary of remaining write-ins for Line 25 from overflow page			

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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#	_	2021	_	2020
NET INCOME							
(1) State basis (Page 4, Line 35, Columns 1 & 2)	XXX	XXX	XXX	\$	18,536,480	\$	12,385,260
(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	\$	18,536,480	\$	12,385,260
						-	
SURPLUS							
(5) State basis (Page 3, Line 38, Columns 1 & 2)	XXX	XXX	XXX	\$	265,429,591	\$	274,509,526
(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	\$	265,429,591	\$	274,509,526
						_	

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 held unaffiliated common stocks, for which the transfer of ownership was restricted by contractual requirements, with carrying values of \$12,060 as of December 31, 2021 and \$0 as of December 31, 2020.

- (4) As of December 31, 2021 and 2020, 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.

### d. 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, 2021 and 2020, the Company did not record any corrections of prior years' errors.
- b. Adoption of new accounting standards

In July 2020, the NAIC adopted modifications to Statements of Statutory Accounting Principles (SSAP) No. 26R, Bonds, effective January 1, 2021. The modifications apply similar reporting for gains or losses due to a tender offer as previously adopted for calls. The difference between consideration and par is recognized as net investment income, while any difference between book value and par is recognized as realized gain or loss. The modifications did not have a material effect on the Company's financial statements.

In March 2021, the NAIC adopted modifications to SSAP No. 26R, Bonds, effective January 1, 2021. The modifications expand the called bond disclosures to also include bonds terminated early through a tender offer. The modifications did not have a material effect on the Company's financial statements.

In March 2021, the NAIC adopted modifications to SSAP No. 26R, Bonds, effective January 1, 2021. The modifications clarify that perpetual bonds are within scope. Perpetual bonds shall be reported at fair value regardless of NAIC designation, not to exceed any current effective call price. For perpetual bonds with an effective call option, any applicable premium shall be amortized to the next effective call date. For perpetual bonds purchased at a discount, any applicable discount shall be accreted utilizing the yield-to-worst concept. The modifications did not have a material effect on the Company's financial statements.

In May 2021, the NAIC adopted modifications to SSAP No. 2R, Cash, Cash Equivalents, Drafts and Short-Term Investments, effective May 20, 2021. The modifications clarify that cryptocurrencies do not meet the definition of cash, cash equivalents and short-term investments and therefore should be non-admitted assets if held directly by an insurer. The modifications did not have any effect on the Company's financial statements.

#### Note 3 - Business Combinations and Goodwill

- a. 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.
- c. The Company did not enter into any assumption reinsurance agreements.
- d. 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

- a. Mortgage loans
  - (1) During 2021 and 2020, the Company did not purchase residential mortgage loans.
  - (2) During 2021 and 2020, the Company did not own any commercial mortgage loans or mezzanine real estate loans.
  - (3) As of December 31, 2021 and 2020, 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:

					Residential		Comn	nercial	_	
			Fa	rm	Insured	All Other	Insured	All Other	Mezzanine	Total
a.	202	21								
	1.	Recorded investment (all)								
		(a) Current	\$	- \$	1,671,626 \$	99,522 \$	- \$	-	- \$	1,771,148
		(b) 30-59 days past due		-	-	-	-	-		-
		(c) 60-89 days past due		-	-	-	-	-		-
		(d) 90-179 days past due		-	-	-	-	-		-
		(e) 180+ days past due		-	-	-	-	-		-
	2.	Accruing interest 90-179								
		days past due								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	-	- \$	-
		(b) Interest accrued		-	-	-	_	-	. <u>-</u>	-
	3.	Accruing interest 180+								
		days past due								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	-	- \$	-
		(b) Interest accrued		_	_	-	-	-		-
	4.	Interest reduced								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	-
		(b) Number of loans	-	_	_	_ `	_	-		-
		(c) Percent reduced		_	_	_	-	-		-
	5.	Participant or co-lender in a								
		mortgage loan agreement								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	-	- \$	_
b.	202		•	•	·	•	•			
	1.	Recorded investment (all)								
		(a) Current	\$	- \$	1,973,187 \$	117,206 \$	- \$	-	- \$	2,090,393
		(b) 30-59 days past due	-	_	-	-	_	-		-
		(c) 60-89 days past due		_	_	_	_	-		_
		(d) 90-179 days past due		_	_	_	_	-		_
		(e) 180+ days past due		_	_	_	_	-		_
	2.	Accruing interest 90-179								
		days past due								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	-	- \$	_
		(b) Interest accrued	•	-		_ `	_	-		_
	3.	Accruing interest 180+								
		days past due								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	-	- \$	_
		(b) Interest accrued	•	-	-	-	_	-		_
	4.	Interest reduced								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$	_	-\$	_
		(b) Number of loans	Ψ	-	_	_	Ψ -	_		_
		(c) Percent reduced		_	_	_	_	_		_
	5.	Participant or co-lender in a								
	٥.	mortgage loan agreement								
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		-\$	
		(a) Necolucu IIIVestillelit	Φ	- ф	- ⊅	- 2	- 4	•	- φ	-

- (5) As of December 31, 2021 and 2020, 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) As of December 31, 2021 and 2020, the Company did not have any impaired mortgage loans.
- (7) As of and for the December 31, 2021 and 2020, 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, 2021, 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, 2021 and 2020, the Company did not have any restructured debt.

c. Reverse mortgages:

As of December 31, 2021, the Company did not have any reverse mortgages.

- d. Loan-backed securities:
  - (1) 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 Cost Basis		Red	cogni n Los	zed		
			Before OTTI	-	la) erest	(2	lb) n-interest		Fair Value 1-(2a+2b)
OTI	∏ recognized in the first quarter								
a. b.	Intent to sell Inability or lack of intent to retain the investment	\$	-	\$	-	\$	-	\$	-
D.	in the security for a period of time sufficient to								
C.	recover the amortized cost basis  Total first quarter	\$	93,988 93,988	\$		\$	3,976 3,976	\$	90,012
U.	rotal ilist quartel	Ψ	93,900	Ψ	<u> </u>	Ψ	3,970	Ψ	90,012
OTT d.	I recognized in the second quarter	\$	_	Ф.		Ф.	_	\$	_
e.	Inability or lack of intent to retain the investment	Ψ	_	Ψ	_	Ψ	_	Ψ	
	in the security for a period of time sufficient to recover the amortized cost basis		152,001		_		4,129		147,872
f.	Total second quarter	\$	152,001	\$	_	\$	4,129	\$	147,872
OTI	ΓI recognized in the third quarter								
g.	Intent to sell	\$	-	\$	-	\$	-	\$	-
h.	Inability or lack of intent to retain the investment in the security for a period of time sufficient to								
	recover the amortized cost basis								
i.	Total third quarter	\$		\$		\$		\$	
OTT	I recognized in the fourth quarter								
j.	Intent to sell	\$	-	\$	-	\$	-	\$	-
k.	Inability or lack of intent to retain the investment in the security for a period of time sufficient to								
	recover the amortized cost basis	_	85,732				3,820	_	81,912
I.	Total fourth quarter	\$	85,732	\$		\$	3,820	\$	81,912
m.	Annual aggregate total			\$		\$	11,925		

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	\$ 93,988	\$ 90,012	\$ (3,976)	\$ 90,012	\$ 80,737	March 31, 2021
40431KAE0	62,425	61,595	(830)	61,595	72,006	June 30, 2021
61750FAE0	89,576	86,277	(3,299)	86,277	79,659	June 30, 2021
61750FAE0	85,732	81,912	(3,820)	81,912	76,952	December 31, 2021
Totals	\$ 331,721	\$ 319,796	\$ (11,925)	\$ 319,796	\$ 309,354	

(4) As of December 31, 2021, 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:

1. Less than 12 months	\$	(214,964)
2. 12 months or longer	\$	(350,885)
The aggregate related fair value of securities with unrealized	losses:	

 1. Less than 12 months
 \$ 13,126,637

 2. 12 months or longer
 \$ 1,793,796

(5) No additional information.

- 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, 2021.
- f. Repurchase agreements transactions accounted for as secured borrowing:
  - (1) The Company did not have any repurchase agreements as of December 31, 2021.
- 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, 2021.

- 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, 2021.
- 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, 2021.
- Real estate: j.
  - (1) The Company did not have any investments in real estate for the years ended December 31, 2021 and 2020.
- Low income housing tax credit properties:
  (1) The Company did not have any these properties for the years ended December 31, 2021 or 2020.
- I. Restricted assets:
  - (1) Restricted assets (including pledged):

		Gross (Admitted & Nonadmitted) Restricted											
			6	7									
		1	2	Current Year 3	4 5								
			_	Total Separate	S/A Assets			Increase/					
		Total General	G/A Supporting	Account (S/A)	Supporting G/A	Total	Total from	(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												
	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	4,442,770	-	-	-	4,442,770	4,447,113	(4,343)					
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	-	-	-	-	-	-	-					
0.	Total restricted assets	\$ 4,442,770	\$ -	\$ -	\$ -	\$ 4,442,770	\$ 4,447,113	\$ (4,343)					

<sup>(</sup>a) Subset of column 1

<sup>(</sup>b) Subset of column 3

		Current Year							
		8	9	Perce	ntage				
			Total Admitted	10 Gross (Admitted & Nonadmitted)	11 Admitted Restricted to				
	Restricted Asset Category	Total Nonadmitted	Restricted	Restricted to Total	Total Admitted				
	restricted Asset Galegory	Restricted	(5 minus 8)	Assets (c)	Assets (d)				
a.	Subject to contractual								
	obligation for which								
	liability is not shown	\$ -	\$ -	- %	- %				
b.	Collateral held under								
	security lending agreements	-	-	-	-				
C.	Subject to repurchase								
	agreements	-	-	-	-				
d.	Subject to reverse	1							
	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	-	4,442,770	0.081	0.081				
k.	On deposit with other								
	regulatory bodies	-	-	-	-				
i.	Pledged collateral to	1							
	FHLB (including assets								
	backing funding agreements)	-	-	-	-				
m.	Pledged as collateral not	1							
	captured in other categories	-	-	-	-				
n.	Other restricted assets	-	-	-	-				
0.	Total Restricted Assets	\$ -	\$ 4,442,770	0.081 %	0.081 %				
Ľ.		7	,2,770	3.301 70	3.301 70				

<sup>(</sup>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		Percentage						
		С	urrent Year							
	1	2	3	4	5	6	7	8	9	10
			Total Separate						Gross (Admitted	Admitted
			Account (S/A)	S/A Assets			Increase/	Total Current	& Nonadmitted)	Restricted Total
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
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	
Total (c)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	

<sup>(</sup>a) Subset of column 1

<sup>(</sup>d) Column 9 divided by Asset Page, Column 3, Line 28

<sup>(</sup>b) Subset of column 3

<sup>(</sup>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

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

		Gross		Percentage						
		С	urrent Year							
	1	1 2		4 5		6	7	8	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, 2021.
- n. 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, 2021.
- o. 5GI Securities:

	Investment	Number of 5GI	Securities	Aggregate	BACV	Aggregate Fair Value		
		Current Year Prior Year		Current Year	Current Year Prior Year		Prior Year	
(1)	Bonds - AC	1	1	\$-	\$26,677	\$-	\$26,610	
	-			Ψ	Ψ20,011	•	Ψ20,010	
(2)	LB&SS - AC	-	-	-	-	-	-	
(3)	Preferred Stock - AC	-	-	-	-	-	-	
(4)	Preferred Stock - FV	-	-	-	-	-	-	
(5)	Total (1+2+3+4)	1	1	\$-	\$26,677	\$-	\$26,610	

AC - Amortized Cost FV - Fair Value

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

	_	Years Ended December 31, 2021					
		General Account		Separate Account			
1. Number of CUSIPS		1		27			
2. Aggregate amount of investment income	\$	2,645	\$	691,251			

r. Reporting entity's share of cash pool by asset type:

	Asset Type	Percent Share			
(1)	Cash	6	%		
(2)	Cash equivalents	89	%		
(3)	Short-term investments	5	%		
(4)	Total	100	%		

#### 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, 2021 and for the year ended December 31, 2020.
- b. 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, 2021 or 2020.

#### Note 7 - Investment Income

- a. 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.
- b. The total amount of due and accrued investment income excluded from surplus was \$18,814 for the year ended December 31, 2021 and \$0 for the year ended December 31, 2020.

#### Note 8 - Derivative Instruments

The company did not have any derivative instruments for the years ended December 31, 2021 or 2020.

- 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, 2021							
		_	Ordinary		Capital		Total			
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	4,192,722 -	\$	457,318 -	\$	4,650,040			
(c)	Adjusted gross DTAs	-	4,192,722		457,318		4,650,040			
(d)	DTAs nonadmitted		2,050,073		150,245		2,200,318			
(e)	Subtotal net admitted DTA		2,142,649		307,073		2,449,722			
(f)	Total gross DTLs		352,438		285,705		638,143			
(g)	Net admitted DTA(L)	\$	1,790,211	\$	21,368	\$	1,811,579			
				Decer	mber 31, 2020					
		_	Ordinary		Capital		Total			
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	4,334,494 -	\$	559,166 -	\$	4,893,660			
(c)	Adjusted gross DTAs	-	4,334,494		559,166		4,893,660			
(d)	DTAs nonadmitted		1,917,624		309,800		2,227,424			
(e)	Subtotal net admitted DTA		2,416,870		249,366		2,666,236			
(f)	Total gross DTLs	_	446,982		249,147		696,129			
(g)	Net admitted DTA(L)	\$	1,969,888	\$	219	\$	1,970,107			
					Change					
			Ordinary		Capital		Total			
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	(141,772) -	\$	(101,848) -	\$	(243,620)			
(c)	Adjusted gross DTAs		(141,772)		(101,848)		(243,620)			
(d)	DTAs nonadmitted		132,449		(159,555)		(27,106)			
(e)	Subtotal net admitted DTA		(274,221)		57,707		(216,514)			
(f)	Total gross DTLs	_	(94,545)		36,558		(57,986)			
(g)	Net admitted DTA(L)	\$	(179,676)	\$	21,150	\$	(158,526)			

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

				Decer	mber 31, 2021	
			Ordinary		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	\$	-	\$	21,368	\$ 21,368
	<ul><li>and 2(b)2 below)</li><li>1. Adjusted gross DTAs expected to be</li></ul>		1,790,211		-	1,790,211
	realized following the balance sheet date  2. Adjusted gross DTAs allowed per		1,790,211		-	1,790,211
(c)	limitation threshold Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b)		39,167,672		-	39,167,672
(d)	above) offset by gross DTLs DTAs admitted as the result of application of SSAP no. 101		352,438		285,705	638,143
	Total (2(a) + 2(b) + 2(c))	\$	2,142,649	\$	307,073	\$ 2,449,722
				Decer	mber 31, 2020	
		_	Ordinary		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	\$	-	\$	219	\$ 219
	threshold limitation (the lesser of 2(b)1 and 2(b)2 below)		1,969,889		-	1,969,889
	realized following the balance sheet date		1,969,889		-	1,969,889
(c)	limitation threshold Adjusted gross DTAs (excluding the		40,505,883		-	40,505,883
(d)	amount of DTAs from 2(a) and 2(b) above) offset by gross DTLs DTAs admitted as the result of application		446,981		249,147	696,128
	of SSAP no. 101 Total (2(a) + 2(b) + 2(c))	\$	2,416,870	\$	249,366	\$ 2,666,236
					Change	
		_	Ordinary		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	\$	-	\$	21,149	\$ 21,149
	threshold limitation (the lesser of 2(b)1 and 2(b)2 below)		(179,678)		-	(179,678)
	<ol> <li>Adjusted gross DTAs expected to be realized following the balance sheet date</li> </ol>		(179,678)		-	(179,678)
(c)	<ol> <li>Adjusted gross DTAs allowed per limitation threshold</li> <li>Adjusted gross DTAs (excluding the</li> </ol>		(1,338,211)		-	(1,338,211)
	amount of DTAs from 2(a) and 2(b) above) offset by gross DTLs		(94,543)		36,558	(57,985)
(d)	DTAs admitted as the result of application of SSAP no. 101 Total $(2(a) + 2(b) + 2(c))$	\$	(274,221)	\$	57,707	\$ (216,514)
		_				

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

		Years Ended December 31,					
		 2021		2020			
(a)	Ratio percentage used to determine recovery period and threshold limitation amount	9,449%		8,693%			
(b)	Amount of adjusted capital and surplus used to determine recovery period and threshold limitation in 2(b)2 above.	\$ 261,117,811	\$	270,039,219			

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, 2021					
				Ordinary		Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	4,192,772	\$	457,318			
	<ol> <li>3.</li> </ol>	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies Net admitted DTAs amount from Note	<b>;</b>	-%		-%			
	4.	9A1(g) Percentage of net admitted DTAs by	\$	1,790,211	\$	21,368			
		tax character attributable to the impact of tax planning strategies		0%		100%			
				Decemb	er 31	, 2020			
				Ordinary		Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	4,334,494	\$	559,166			
	<ol> <li>Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies</li> </ol>			-%		-%			
	3.	Net admitted DTAs amount from Note 9A1(g)	; \$	1,969,888	\$	219			
	4. Percentage of net admitted DTAs by tax character attributable to the		·	0%	4000/				
		impact of tax planning strategies		0%		100%			
				Change					
(0)			_	Ordinary		Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	(141,722)	\$	(101,848)			
	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(g)	\$	(179,677)	\$	21,149			
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		0%		0%			
(b)		s the Company's tax planning egies include the use of reinsurance?		Yes_		No <u>X</u>			

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

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

1.

		Years Ended December 31,							
			2021	2020			Change		
(a)	Federal	\$	2,976,392	\$	1,012,978	\$	1,963,414		
(b)	Foreign		<u> </u>		<u> </u>				
(c)	Subtotal		2,976,392		1,012,978		1,963,414		
(d)	Federal income tax on net capital gains		271,779		217,869		53,910		
(e)	Utilization of capital loss carry-forwards		-		-		-		
(f)	Other						_		
(g)	Federal and foreign income taxes incurred	\$	3,248,171	\$	1,230,847	\$	2,017,324		

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

				December 31,	
2.	Dof	erred Tax Assets:	2021	2020	Change
۷.	Deli				
	(a)	Ordinary			
		(1) Discounting of unpaid losses	\$	- \$ -	\$ -
		<ul><li>(2) Unearned premium reserve</li><li>(3) Policyholder reserves</li></ul>	850,25	- 1 953,320	(103,069)
		(4) Investments	030,23	- 955,520	(103,009)
		(5) Deferred acquisition costs	3,047,610	3,175,390	(127,780)
		<ul><li>(6) Policyholder dividends accrual</li><li>(7) Fixed assets</li></ul>			-
		(8) Compensation and benefits accrual			-
		(9) Pension accrual			-
		<ul><li>(10) Receivables - nonadmitted</li><li>(11) Net operating loss carry-forward</li></ul>			-
		(12) Tax credit carry-forward			-
		(13) Other	294,86		89,078
		(14) Subtotal	4,192,722	2 4,334,493	(141,771)
	(b)	Statutory valuation allowance adjustment	<u> </u>	<u>-</u>	<u>-</u> _
	(c)	Non admitted	2,050,073	1,917,624	132,449
	(d)	Admitted ordinary DTAs (2a14 - 2b - 2c)	2,142,649	9 2,416,869	(274,220)
	()	,			
	(e)	Capital (1) Investments	<i>1</i> 57 240	P 550.166	(101.040)
		<ul><li>(1) Investments</li><li>(2) Net capital loss carry-forward</li></ul>	457,318	559,166 	(101,848)
		(3) Real estate			-
		(4) Other			- (101.010)
		(5) Subtotal	457,318	559,166	(101,848)
	(f)	Statutory valuation allowance adjustment		<u> </u>	
	(g)	Non admitted	150,245	5 309,800	(159,555)
	(h)	Admitted capital DTAs (2e5 - 2f - 2g)	307,073	3 249,366	57,707
	(i)	Admitted DTAs (2d + 2h)	2,449,722	2,666,235	(216,513)
3.	Def	erred Tax Liabilities:			
	(a)	Ordinary			
		(1) Investments			-
		(2) Fixed Assets			-
		(3) Deferred and uncollected premium	226,382	·	(16,988)
		<ul><li>(4) Policyholder reserves</li><li>(5) Other</li></ul>	32,550 93,500		(165,632) 88,077
		(6) Subtotal	352,438		(94,543)
	(b)	Capital			
		(1) Investments	285,705	5 249,147	36,558
		(2) Real estate	200,100		-
		(3) Other			
		(4) Subtotal	285,705	5 249,147	36,558
	(c)	Total DTLs (3a6 + 3b4)	638,143	3 696,128	(57,985)
4.	Net	DTA(L) (2i - 3c)	\$ 1,811,579	9 \$ 1,970,107	\$ (158,528)

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

	Years Ended December 31,						
		2021		2020			
(1) Net DTA(L)	\$	(127,649)	\$	(219,296)			
Less: Items not recorded in the change in net deferred income taxes:		-		-			
<ul> <li>(2) Tax-effect of unrealized gains/(losses)</li> <li>(3) Tax-effect of change in accounting method for pensions</li> </ul>		(57,570)		(37,263)			
(4) Change in net deferred income taxes	\$	(185,219)	\$	(256,559)			

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,					
		 2021		2020			
(1) (2) (3)	Provision computed at statutory rate Non admitted assets Foreign governmental income taxes	\$ 4,758,395 2,107	\$	2,983,752 4,359			
(4)	Expense items	- 28		- 616			
(5)	Investment items	(1,002,603)		(1,487,665)			
(6)	Tax credits	-		-			
(7)	Change in reserve valuation basis	-		126,000			
(8)	Other	 (327,207)		(139,656)			
	Total statutory income tax expense (benefit)	\$ 3,430,720	\$	1,487,406			
(9) (10)	Federal and foreign income tax benefit Change in net deferred income taxes	\$ 3,245,501 185,219	\$	1,230,847 256,559			
	Total statutory income tax expense (benefit)	\$ 3,430,720	\$	1,487,406			

- E. (1) As of December 31, 2021, 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 of \$3,420,831 in 2021 and \$725,317 in 2020.
  - (3) As of December 31, 2021 and 2020, the Company had no protective deposits recognized as admitted assets.
- F. (1) The Company is included in a consolidated United States (U.S.) federal income tax return with its parent, Massachusetts Mutual Life Insurance Company (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 capital net 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.
- 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, 2020, the Company has no liabilities for unrecognized tax benefits.
  - (2) In response to the COVID-19 pandemic, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law on March 27, 2020 and the Consolidated Appropriations Act (CAA), 2021 was signed into law on December 27, 2020. The CARES Act, among other things, permits net operating loss (NOL) carryovers and carrybacks to offset 100% of taxable income for taxable years beginning before 2021. In addition, the CARES Act allows NOLs incurred in 2018, 2019, and 2020 to be carried back to each of the five preceding taxable years to generate a refund of previously paid income taxes. The CAA extends and expands certain tax provisions of the CARES Act. The CARES Act as well as the CAA did not have a material effect on the consolidated financial statements.
  - (3) The Internal Revenue Service (IRS) has completed its examination for the years 2013 and prior. The 2014-2016 tax years are currently at IRS Appeals. The IRS commenced its examination of years 2017-2018 in October 2020. 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.

- b. The Company did not have any material non-insurance related party transactions during the years ended December 31, 2021 or 2020. See Schedule Y for SCA activity.
- c. The Company did not have any material related party transactions that were not reported on Schedule Y.
- d. The Company reported \$203,186 as amounts due from parent, subsidiaries and affiliates as of December 31, 2021 and \$173,473 as of December 31, 2020. The Company reported \$4,310,156 as amounts due to parent, subsidiaries and affiliates as of December 31, 2021 and \$2,169,121 as of December 31, 2020. Terms require settlement of these amounts within 30 to 90 days.
- e. 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,					
		2021		2020		
Fee income:						
Recordkeeping and other services	\$	872,677	\$	815,743		
Investment advisory income		1,839,616		1,684,923		
Fee expense:						
Management and service contracts and cost-sharing						
arrangements		9,276,637		9,975,903		
Investment advisory services		928,295		94,083		

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 2021 or 2020 related to these exchange programs.

f. 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 also has a stop-loss agreement with MassMutual under which the Company cedes claims which, in aggregate, exceed 1.63% of the covered volume for any year, with maximum coverage of \$25,000,000 above the aggregate limit. The aggregate limit was \$33,993,474 in 2021 and \$33,112,654 in 2020 and it was not exceeded in either year.

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 \$39,507,318 as of December 31, 2021 and \$39,118,415 as of December 31, 2020. 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,					
		2021		2020		
Premium expense ceded, related to:						
Stop-loss agreements	\$	(166,105)	\$	(164,294)		
Quota-share reimbursement agreements		(5,294,341)		(5,509,479)		
Modified coinsurance adjustments ceded, included in fee and other income		(10,887,885)		(11,205,308)		
Expense allowances on reinsurance ceded, included in fees and other income, related to:						
Modified coinsurance agreements		6,371,086		6,248,069		
Policyholders' benefits ceded, related to:						
Modified coinsurance agreements		14,284,213		11,273,420		
Quota-share reimbursement agreements		2,388,171		3,435,946		
Experience refunds (paid) received, related to:						
Stop-loss agreements		55,369		54,722		
Modified coinsurance agreements		(310,873)		(731,301)		

- g. All outstanding shares of the Company were owned by its parent.
- h. The Company does not have an investment in its parent.
- i. As of 2021, the Company did not have an investment in SCAs exceeding 10% of admitted assets.
- j. In 2021, the Company did not have impairment write-downs on its investments in affiliated bonds.
  - In 2020, 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.

- The Company has no foreign insurance subsidiary whose value is calculated by adjusting annuity GAAP account value reserves using k. the Commissioners' Annuity Reserve Valuation Method and the related Actuarial Guidelines.
- The Company does not hold an investment in a downstream noninsurance holding company.
- 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 n. accounting practices.
- The Company does not have any insurance SCAs for which losses exceeded its investment in the SCA. Ο.

### Note 11 Debt

- The Company did not have any capital notes or liability for borrowed money as of December 31, 2021 or 2020. a.
  - 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.
- 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.
- 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.
- The Company did not have any defined contribution plans. e
- The Company did not have multi-employer plans. f.
- Consolidated/Holding Company plans: g.
  - 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 \$611,437 for the year ended December 31, 2021 and \$963,484 for the year ended December 31, 2020 for these plans.
- The Company does not accrue for postemployment benefits and compensated absences since it does not have any employees.

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

- The Company had 50,000 shares of common stock authorized, 12,501 shares issued and outstanding as of December 31, 2021. The par value of the common stock is \$200 per share.
- The Company did not have any preferred stock outstanding. b.
- Without the prior approval of the Insurance Commissioner of the State of Connecticut (the Commissioner), total dividends paid to the C. 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, \$26,542,959 of shareholder's equity is available for distribution to the shareholder in 2022 without prior regulatory approval.
- In December 2021, the Company declared and paid \$27,000,000 in dividends to C.M. Life. In December 2020, the Company declared and paid \$29,000,000 in dividends to C.M. Life.
- 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.
- There are no restrictions on unassigned surplus funds. f.
- The Company did not make any advances to surplus. g.
- h. The Company did not have any stock held for special purposes.
- The Company does not have any special surplus funds.
- The portion of unassigned funds (surplus) represented by net unrealized gains and losses (cumulative, net of deferred tax) was (\$177,180) as of December 31, 2021. The portion of unassigned funds (surplus) represented by net unrealized gains and losses (cumulative, net of deferred tax) was (\$196,877) as of December 31, 2020
- The Company did not have any surplus debentures or similar obligations.
- There were no restatements due to prior quasi-reorganizations. I.
- There were no quasi-reorganizations in the prior ten years.

# Note 14 - Liabilities, Contingencies and Assessments

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, 2021 or 2020, the Company had no commitments.

### Assessments: b.

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.

### Gain contingencies:

No material gain contingencies were realized subsequent to December 31, 2021 through the filing date.

- d. The Company did not have any claims related to extra contractual obligations in 2021.
- The Company has no joint and several liabilities. e.

### 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 31,2021 or 2020.

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

- During 2021 and 2020, the Company did not transfer any receivables that were reported as sales. a.
- b. Transfer and Servicing of Financial Assets:
  - The Company did not participate in securities lending as of December 31, 2021 or 2020. (1)
  - The Company did not have any servicing assets or liabilities in 2021 or 2020. (1)
  - (2) The Company did not have any servicing assets or liabilities in 2021 or 2020.
  - The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2021 or 2020. (3)
  - The Company did not have any transfers of financial assets accounted for as secured borrowing in 2021 or 2020. (4)
  - (5)The Company did not have any transfers of receivables with recourse in 2021 or 2020.
  - See Note 5e1 "Repurchase Agreements". (6)

# Wash sales:

- In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days of (1) the sale date to enhance the Company's yield on its investment portfolio.
- The Company did not sell any securities with the NAIC Designation 3 or below, or unrated, for the year ended December 31, 2021 or 2020, 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

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

- 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, 2021									
	Level 1	Level 2	Level 3	(NAV)	Total					
Financial assets:										
Bonds:										
Industrial and miscellaneous	\$ -	\$ 746,832	\$ -	\$ -	\$ 746,832					
Common stock - unaffiliated	12,060	-	-	-	12,060					
Separate account assets <sup>(1)</sup>	1,377,931,066	2,364,973,481	-	-	3,742,904,547					
Total financial assets carried										
at fair value	\$ 1,377,943,126	\$ 2,365,720,313	\$ -	\$ -	\$ 3,743,663,439					

(1)\$1,221,894,992 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 31,2021, 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, 2020								
	Level 1	Level 2	Level 3	(NAV)	Total				
Financial assets:									
Bonds:									
Industrial and miscellaneous	\$ -	\$ 1,028,347	\$ -	\$ -	\$ 1,028,347				
Separate account assets <sup>(1)</sup>	1,195,556,830	2,480,098,682	-	-	3,675,655,512				
Total financial assets carried at fair value	\$ 1,195,556,830	\$ 2,481,127,029	\$ -	\$ -	\$ 3,676,683,859				

(1)\$1,183,176,336 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, 2021 Net Not Asset Practicable Aggregate Admitted Value (Carrying Fair Value Assets Level 1 Level 2 Level 3 (NAV) Value) Financial assets: Bonds: U. S. government and 4.427.099 \$ 4.444.612 \$ - \$ 4.427.099 \$ \$ \$ agencies Special revenue 29,261 33,217 33,217 Industrial and miscellaneous 226,790,617 213,262,248 226,672,401 118.216 Parent, subsidiaries and 990.891 992.122 990.891 affiliates 12,060 12,060 12,060 Common stock - unaffiliated Mortgage loans - residential 1,779,909 1,771,148 1 779 909 Cash, cash equivalents and short-term investments 121 099 505 121 099 505 7 111 307 113 988 198 1.387.965.897 8.874.309 Separate account assets 5,003,598,884 4,974,831,570 3.606.758.678 Financial liabilities: Individual annuity contracts 3,002,675 2,890,477 3,002,675 15,454,191 15,301,179 15,454,191 Supplementary contracts

	December 31, 2020													
<del>-</del>											Net		Not	_
											Asset	Р	racticable	;
	Aggregate		Admitted		Lavald		11 0		1 1 0		Value	(	Carrying	
<u>-</u>	Fair Value		Assets		Level 1		Level 2		Level 3		(NAV)		Value)	
Financial assets:														
Bonds:														
U. S. government and														
agencies \$	4,521,198	\$	4,504,991	\$	-	\$	4,521,198	\$	-	\$	-	\$		-
Special revenue	40,848		35,264		-		40,848		-		-			-
Industrial and miscellaneous	262,438,285		238,906,475		-		261,951,736		486,549		-			-
Mortgage loans - residential	2,149,234		2,090,393		-		-		2,149,234		-			-
Cash, cash equivalents and														
short-term investments	103,615,595		103,615,595		(1,932,163)		105,547,758		-		-			-
Separate account assets	4,929,390,678		4,858,831,848		1,195,557,522		3,723,465,405		10,367,751		-			-
Financial liabilities:														
Individual annuity contracts	3,181,417		3,059,214		-		-		3,181,417		-		-	-
Supplementary contracts	13,002,296		12,873,560		-		-		13,002,296		-			-

d. As of December 31, 2021 and 2020, 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 \$4,442,770 as of December 31, 2021 and \$4,447,113 as of December 31, 2020.

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 spread of the coronavirus, causing increased cases of COVID-19, has caused significant volatility in U.S. and international markets. There is significant uncertainty around the breadth and duration of business disruptions related to COVID-19, as well as its impact on the U.S. and international economies. At this time, the Company is not able to reliably estimate the length and severity of the COVID-19 public health crises and, as such, cannot quantify its impact on the financial results, liquidity and capital resources and its operations in future periods.

# 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 politics 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 2021.
- e. The Company did not have unused transferable or non-transferable state tax credits as of December 31, 2021.
- f. Subprime mortgage related risk exposure:

As of December 31, 2021 and 2020, 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 un securitized whole-loan pools.

(2) Direct exposure through other investments:

Residential mortgage-backed securities risk exposure:

						Ye	ear Ended		
		December 31, 2021					December 31, 2021		
	Actual	Actual Carrying			Fair				
Alt-A:	Cost	Cost Value			Value		OTTI		
a. Residential mortgage-backed securities	\$ 1,370,314	\$	1,456,976	\$	1,509,707	\$		-	
b. Commercial mortgage-backed securities	-		-		-			-	
c. Collateralized debt obligations	-		-		-			-	
d. Structured securities	-		-		-			-	
e. Equity investments in SCA	-		-		-			-	
f. Other assets	-		-		-				
g. Total	\$ 1,370,314	\$	1,456,976	\$	1,509,707	\$			

						Y	ear Ended	
		Dece	ember 31, 2020	0		Dece	mber 31, 2	020
	Actual	(	Carrying		Fair			
Alt-A:	Cost		Value		Value		OTTI	
a. Residential mortgage-backed securities \$	443,488	\$	560,994	\$	648,451	\$		-
b. Commercial mortgage-backed securities	-		-		-			-
c. Collateralized debt obligations	-		-		-			-
d. Structured securities	-		-		-			-
e. Equity investments in SCA	-		-		-			-
f. Other assets	-		-		-			_
g. Total	443,488	\$	560,994	\$	648,451	\$		

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

# g. Retained asset accounts:

As of December 31, 2021 and 2020, the Company had no retained asset accounts.

(2)	Retained Asset Accounts In Force
	December 31,

	202	1	2020	
	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)	Individ	ual	Group	
	Number	Balance	Number	Balance
a. Retained asset accounts as of January 1, 2021     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, 2021	- \$	-	- \$	_

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 25, 2022, 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 31,2021, the resulting reduction in surplus due to loss of reinsurance reserve credits net of unearned premium would be \$10,915,213, 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, 2021, 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.
- 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 risk-based capital shortfall
			None	\$	-
			None	\$	-
			None	\$	-
Total					
1. Total adju 2. Risk-base	sted capital (TA d capital shortf	AC) (Five-Year all (Sum of g(1	tal adjusted capital (TAC) Historical Line 30) )a1 Column 5) -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

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

There was no increase to reserves in 2021 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

- 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.
- b. 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, 2021, for which the gross premium was less than the net premium according to the standard valuation set by the Department.
- d. 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:

				Ordinary				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, 2021 are illustrated

# a. INDIVIDUAL ANNUITIES:

	<u>Ge</u>	eneral Account		Separate Account with <u>Guarantees</u>	<u>!</u>	Separate Account <u>Nonguaranteed</u>		<u>Total</u>	% of <u>Total</u>
(1) Subject to discretionary withdrawal:									
<ol> <li>With market value adjustment</li> </ol>	\$	1,525,197	\$_		\$_	<u> </u>	\$	1,525,197	3 %
b. At book value less current									
surrender charge of 5% or more		_	_		_	_			
c. At fair value		_	_		_	42,004,151		42,004,151	94
d. Total with market value adjustment									
or at fair value (total of 1 through 3)		1,525,197			_	42,004,151		43,529,348	97
e. At book value without									
adjustment (minimal or no charge or									
adjustment)	_		_	<u>-</u>	-		_		
(2) Not subject to discretionary withdrawal		1,126,004	_	<u>-</u>	_			1,126,004	3_
(3) Total * (gross: direct + assumed)		2,651,201	_		_	42,004,151		44,655,352	<u>100</u> %
(4) Reinsurance ceded		_	_		_			<u>-</u>	
(5) Total (net)* (3) - (4)	\$	2,651,201	\$_		\$_	42,004,151	\$	44,655,352	
(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>	\$_	-	\$_		\$	<u>-</u>	

<sup>\*</sup> Reconciliation of total annuity actuarial reserves and deposit fund liabilities:

# b. GROUP ANNUITIES:

	General Account	Separate Account with <u>Guarantees</u>	Separate Account <u>Nonguaranteed</u>	<u>Total</u>	% of <u>Total</u>
(1) Subject to discretionary withdrawal:					
a. With market value adjustment	\$	\$	\$	\$	<u> </u>
<ul> <li>At book value less current surrender charge of 5% or more</li> </ul>	<del>_</del> _	<u>-</u> _	<u> </u>		<u> </u>
c. At fair value			<u> </u>		<u> </u>
<ul> <li>d. Total with market value adjustment or at fair value (total of 1 through 3)</li> <li>e. At book value without adjustment (minimal or no charge or</li> </ul>			<u> </u>		<u> </u>
adjustment)					
(2) Not subject to discretionary withdrawal	<del>_</del>	<u> </u>	. <u></u>		<u> </u>
(3) Total * (gross: direct + assumed)	<u> </u>		<u> </u>		<u> </u>
(4) Reinsurance ceded			<u> </u>		<u> </u>
(5) Total (net)* (3) - (4)	\$	\$	\$	\$	<u> </u>
(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:	\$ -	\$ -	\$ -	\$	-

# c. DEPOSIT-TYPE CONTRACTS (no life contingencies)

	General Account	Separate Account with <u>Guarantees</u>	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					
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)	15,738,218			15,738,218	98_
(2) 11	0.40.0.40			0.40.040	
(2) Not subject to discretionary withdrawal	242,312			242,312	2
(3) Total * (gross: direct + assumed)	\$15,980,530	\$	\$	\$ 15,980,530	<u>100</u> %
(4) Reinsurance ceded					
(5) Total (net)* (3) - (4)	\$ <u>15,980,530</u>	\$ <u> </u>	\$ <u> </u>	\$ <u>15,980,530</u>	
(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 Statement:	
	(1) Exhibit 5, Annuities Section, Total (net)	\$ 2,651,201
	(2) Exhibit 5, Supplementary Contracts with Life Contingencies Section, Total (net)	-
	(3) Exhibit 7, Deposit-Type Contracts, Line 14, Column 1	 15,980,530
	(4) Subtotal	\$ 18,631,731
	Separate Accounts Annual Statement:	
	(5) Exhibit 3, Line 0299999, Column 2	42,004,151
	(6) Exhibit 3, Line 0399999, Column 2	-
	(7) Policyholders dividend and coupon accumulations	-
	(8) Policyholder premiums	-
	(9) Guaranteed interest contracts	-
	(10) Other contract deposit funds	-
	(11) Subtotal	\$ 42,004,151
	(12) Combined Total	\$ 60.635.882

e. The Company is not a member of the FHLB therefore it has no FHLB funding agreements.

Note 33 - Analysis of Life Actuarial Reserves by Withdrawal Characteristics

The withdrawal characteristics of the Company's life actuarial reserves as of December 31, 2021 are illustrated below:

			_	Account Value	Cash Value	Reserve
a.	Gen	eral Account 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 g. Other Permanent Cash Value Life Insurance		-	-	-
		h. Variable Life		3,055,054	3,055,054	1,084,765
		i. Variable Universal Life		142,612,449	142,052,498	149,678,508
		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	1,912
		c. Disability - Active Lives		XXX	XXX	29,891
		d. Disability - Disabled Lives		XXX	XXX	8,351,308
	(3)	e. Miscellaneous Reserves	φ.	XXX	XXX	2,364,535
	(4)	Total (gross: direct + assumed) Reinsurance Ceded	\$	145,667,503 \$ -	145,107,552 \$ -	161,510,919 20,879,534
	(5)	Total (net) (3) - (4)	\$	145,667,503 \$	145,107,552 \$	140,631,385
	0	Annual Annual with Consumb	-	Account Value	Cash Value	Reserve
b.	(1)	arate Account with Guarantees Subject to discretionary withdrawal, surrender values, or policy loans				
		Term Policies with Cash Value     Universal Life	\$	- \$	- \$	-
		c. Universal Life with Secondary Guarantees		- -	- -	- -
		d. Indexed Universal Life		-	-	_
		e. Indexed Universal Life with Secondary Guarantees		-	-	-
		f. Indexed Life		-	-	-
		g. Other Permanent Cash Value Life Insurance		-	-	-
		h. Variable Life		-	- 0 477 475 405	-
		Variable Universal Life     Miscellaneous Reserves		3,500,996,469	3,477,175,405	3,500,996,289
	(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		XXX	XXX	-
	(3)	e. Miscellaneous Reserves Total (gross: direct + assumed)	\$	XXX 3,500,996,469 \$	XXX 3,477,175,405 \$	3,500,996,289
	(4)	Reinsurance Ceded	φ	5,500,990,409 <b>\$</b>	5,477,175,405 \$ -	5,500,990,269
	(5)	Total (net) (3) - (4)	\$	3,500,996,469 \$	3,477,175,405 \$	3,500,996,289
_	C	arata Assaumt Nanguaranta ad	-	Account Value	Cash Value	Reserve
C.	(1)	arate Account Nonguaranteed Subject to discretionary withdrawal, surrender values, or				
		policy loans				
		a. Term Policies with Cash Value	\$	- \$	- \$	-
		Universal Life     Universal Life with Secondary Guarantees		-	-	-
		<ul><li>c. Universal Life with Secondary Guarantees</li><li>d. Indexed Universal Life</li></ul>		-	-	_
		e. Indexed Universal Life with Secondary Guarantees		<u>-</u>	- -	<u>-</u>
		f. Indexed Life		-	-	-
		g. Other Permanent Cash Value Life Insurance		-	-	-
		h. Variable Life		7,826,598	7,826,598	12,556,790
		i. Variable Universal Life		1,397,781,551	1,396,540,869	1,397,382,977
	(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		XXX	XXX	-
	(3)	e. Miscellaneous Reserves	\$	1 405 609 140 ¢	1 404 267 467 ¢	1,409,939,767
	(4)	Total (gross: direct + assumed) Reinsurance Ceded	φ	1,405,608,149 \$ -	1,404,367,467 \$ -	<u> </u>
	(5)	Total (net) (3) - (4)	\$	1,405,608,149 \$	1,404,367,467 \$	1,409,939,767

i.		Amount
	Life and Accident and Health Annual Statement:	
	(1) Exhibit 5, Life Insurance Section, Total (net)	\$ 129,883,739
	(2) Exhibit 5, Accidental Death Benefits Section, Total (net)	1,912
	(3) Exhibit 5, Disability - Active Lives Section, Total (net)	29,891
	(4) Exhibit 5, Disability - Disabled Lives Section, Total (net)	8,351,308
	(5) Exhibit 5, Miscellaneous Reserves Section, Total (net)	2,364,535
	(6) Subtotal	140,631,385
	Separate Accounts Annual Statement:	
	(7) Exhibit 3, Line 0199999, Column 2	4,910,936,056
	(8) Exhibit 3, Line 0499999, Column 2	-
	(9) Exhibit 3, Line 0599999, Column 2	-
	(10) Subtotal (Lines (7 through (9))	4,910,936,056
	(11) Combined Total ((6) and (10))	5,051,567,441

### Note 34 - Premium and Annuity Considerations Deferred and Uncollected

 Deferred and uncollected life insurance premiums and annuity considerations as of December 31, 2021, were as follows:

	Type	Gross	N	et of Loading
(1)	Industrial	\$ -	\$	-
(2)	Ordinary new business	-		-
(3)	Ordinary renewal	(3,803,929)		(3,803,929)
(4)	Credit life	-		-
(5)	Group life	-		-
(6)	Group annuity	 -		
(7)	Totals	\$ (3,803,929)	\$	(3,803,929)

# 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, 2021 and 2020, the Company's NAIC Separate Account Annual Statement included Separate Accounts with legally insulated products of \$4,944,694,841 and \$4,832,150,249, 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, 2020 are attributed to the following:

Separate Account Assets

			100010	
		Legally Insulated		Not Legally Insulated
Product/Transaction:				
Stable Value Bank-Owned Life Insurance	\$	2,287,828,881	\$	-
Bank-Owned Life Insurance - Guaranteed		1,201,790,295		30,136,728
Individual Variable Universal Life		978,514,474		-
Corporate-Owned Life Insurance		434,536,925		-
Individual Variable Annuity		42,024,266		
Total	\$	4,944,694,841	\$	30,136,728

(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:

2021	\$ -
2020	-
2019	-
2018	-
2017	_

For the year ended December 31, 2021, the general account of the Company had paid \$158,161 toward separate account guarantees. The total separate account guarantees paid by the general account for the preceding years ending December 31, 2020, 2019, 2018, and 2017 was \$107,117, \$97,757, \$322,625, and \$278,674 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.
- 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.

Manindayad

Information regarding the separate accounts of the Company as of and for the year ended December 31, 2021 is as follows:

(1)	Premiums, considerations or deposits as of the end of		Index	Nonindexed Guarantee Less than/ Equal to 4%	Nonindexed Guarantee More than 4%	Nonguaranteed Separate Accounts	Total
	current period	\$	- \$	- \$	- \$	26,138,016\$	26,138,016
		<u> </u>	Ψ	Ψ	Ψ	20,100,0104	20,100,010
Reserve	s as of the end of current period						
(2)	For accounts with assets at:						
a.	Fair value	\$	- \$	- \$	- \$	1,451,943,918 \$	1,451,943,918
b.	Nonpolicy liabilities		-	678,757	-	21,212,605	21,891,362
C.	Amortized cost		-	3,500,996,289	-	-	3,500,996,289
d.	Total Reserves*	\$	- \$	3,501,675,046 \$	- \$	1,473,156,523 \$	4,974,831,569
(3) a.	By withdrawal characteristics: Subject to discretionary	•					
	withdrawal:	\$	- \$	- \$	- \$	- \$	-
	. With market value adjustment		-	-	-	-	-
	<ul> <li>At fair value</li> <li>At book value, without market value adjustment and with current surrender charge of</li> </ul>		-	-	-	1,451,943,918	1,451,943,918
	less than 5%		-	3,500,996,289	-	-	3,500,996,289
4	. Nonpolicy liabilities		-	678,757	-	21,212,605	21,891,362
5	. Subtotal	\$	- \$	3,501,675,046 \$	- \$	1,473,156,523 \$	4,974,831,569
b.	Not subject to discretionary withdrawal		_	-	_	-	-
C.	Total	\$	- \$	3,501,675,046 \$	- \$	1,473,156,523 \$	4,974,831,569
(4)	Reserves for Assets Default Risk in Lieu of AVR	\$	- \$	- \$	- \$	- \$	<u>-</u>

\*Line 2(d) should equal Line 3(c)

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

(1)	Transfers as reported in the Summary of Operations of the Separate Account Statement:	Dec	ember 31, 2021
	(a) Transfers to separate accounts (Page 4, Line 1.4 and 2)	\$	26,138,016
	(b) Transfers from separate accounts (Page 4, Line 10)		(115,635,529)
(2)	<ul><li>(c) Net transfers to (from) separate accounts (a) - (b)</li><li>Reconciling adjustments:</li><li>(a) Net deposits on deposit-type liabilities</li></ul>		(89,497,513)
(3)	Transfers as reported in the Summary of Operations of the Life, Accident & Health Annual Statement (1c) + (2) = (Page 4, Line 26)	\$	(89,497,513)
	(10) · (2) - (1 age 7, Line 20)		

Note 36 – Loss/Claim Adjustment Expenses

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

# **GENERAL INTERROGATORIES**

# PART 1 - COMMON INTERROGATORIES GENERAL

1.1	Is the reporting entity a member of an Insurance Holding Company Sysis an insurer?		
	If yes, complete Schedule Y, Parts 1, 1A, 2 and 3.		
1.2	If yes, did the reporting entity register and file with its domiciliary State such regulatory official of the state of domicile of the principal insurer in providing disclosure substantially similar to the standards adopted by the its Model Insurance Holding Company System Regulatory Act and mod subject to standards and disclosure requirements substantially similar to standards.	n the Holding Company System, a registration statement ne National Association of Insurance Commissioners (NAIC) in del regulations pertaining thereto, or is the reporting entity	es [ X ] No [ ] N/A [ ]
1.3	State Regulating?		СТ
1.4	Is the reporting entity publicly traded or a member of a publicly traded of	group?	Yes [ ] No [ X ]
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	
2.1	Has any change been made during the year of this statement in the charge porting entity?		Yes [ ] No [ X ]
2.2	If yes, date of change:		
3.1	State as of what date the latest financial examination of the reporting e	ntity was made or is being made.	12/31/2019
3.2	State the as of date that the latest financial examination report became entity. This date should be the date of the examined balance sheet and		12/31/2019
3.3	State as of what date the latest financial examination report became at domicile or the reporting entity. This is the release date or completion of examination (balance sheet date).	date of the examination report and not the date of the	06/16/2021
3.4	By what department or departments? State of Connecticut Insurance Department		
3.5	Have all financial statement adjustments within the latest financial exar statement filed with Departments?	mination report been accounted for in a subsequent financial	es [ ] No [ ] N/A [ X ]
3.6	Have all of the recommendations within the latest financial examination	report been complied with?	es [ X ] No [ ] N/A [ ]
4.1		yees of the reporting entity), receive credit or commissions for or cor	Yes [ ] No [ X ]
4.2	During the period covered by this statement, did any sales/service orgareceive credit or commissions for or control a substantial part (more that premiums) of:	anization owned in whole or in part by the reporting entity or an affilia an 20 percent of any major line of business measured on direct	te,
		s of new business?wals?	
5.1	Has the reporting entity been a party to a merger or consolidation durin If yes, complete and file the merger history data file with the NAIC.	g the period covered by this statement?	Yes [ ] No [ X ]
5.2	If yes, provide the name of the entity, NAIC Company Code, and state ceased to exist as a result of the merger or consolidation. $ \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{$	of domicile (use two letter state abbreviation) for any entity that has	
	1 Name of Entity	NAIC Company Code State of Domicile	
6.1	Has the reporting entity had any Certificates of Authority, licenses or re revoked by any governmental entity during the reporting period?		
6.2	If yes, give full information:		
7.1	Does any foreign (non-United States) person or entity directly or indirect	city control 10% or more of the reporting entity?	Yes [ ] No [ X ]
7.2	If yes, 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 attorney-in-fact; and identify the type of entity(s) (e.g., individual, or	e entity is a mutual or reciprocal, the nationality of its manager or	······ <u> </u>
	1 Nationality	2 Type of Entity	

# **GENERAL INTERROGATORIES**

8.1 8.2	Is the company a subsidiary of a depository institution holding comparing the response to 8.1 is yes, please identify the name of the DIHC.					Yes [	]	No [	Х ]
8.3 8.4	Is the company affiliated with one or more banks, thrifts or securities If response to 8.3 is yes, please provide below the names and location regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commission of the Securities (FDIC) and the Securities (FDIC	firms?on (city and state of the main office) of any affiliate the Office of the Comptroller of the Currency (OCC	es regulate	d by a fee	deral	Yes [ X	]	No [	]
	1	2	3	4	5	6	1		
	Affiliate Name	Location (City, State)	FRB	OCC	FDIC	SEC	4		
	Barings LLC Baring International Investment Limited	Charlotte, NC				YES	-		
	Barings Securities LLC						-		
	MML Distributors, LLC	Springfield MA				YES	1		
	MML Investment Advisers, LLC	Springfield, MA				YES			
	MML Investors Services, LLC	Springfield, MA				YES			
	MML Strategic Distributors, LLC	Springfield, MA				YES	-		
	The MassMutual Trust Company, OCC	Enfield, CT		YES					
	Flourish Financial, LLC						-		
8.5	Is the reporting entity a depository institution holding company with s Federal Reserve System or a subsidiary of the reporting entity?	ignificant insurance operations as defined by the ry of a company that has otherwise been made so	Board of G	overnors	of	Yes [	]	-	-
9.	What is the name and address of the independent certified public ac KPMG, LLP, One Financial Plaza, Hartford, CT 06103								
10.1	Has the insurer been granted any exemptions to the prohibited non-a requirements as allowed in Section 7H of the Annual Financial Repolaw or regulation?	orting Model Regulation (Model Audit Rule), or sub	stantially s	imilar sta	ate	Yes [	]	No [	Х]
10.2	If the response to 10.1 is yes, provide information related to this exer	mption:							
10.3 10.4	Has the insurer been granted any exemptions related to the other recallowed for in Section 18A of the Model Regulation, or substantially sold the response to 10.3 is yes, provide information related to this exert	similar state law or regulation? mption:				Yes [	]	No [	Х]
10.5 10.6	Has the reporting entity established an Audit Committee in compliant of the response to 10.5 is no or n/a, please explain	ce with the domiciliary state insurance laws?			Yes [ X	] No [	]	N/A	[ ]
11.	What is the name, address and affiliation (officer/employee of the refirm) of the individual providing the statement of actuarial opinion/cer Vy Q. Ho, Head of Valuation and Appointed Actuary, Massachusetts 01111	porting entity or actuary/consultant associated wit tification? Mutual Life Insurance Company, 1295 State Stre	h an actuar et, Springfi	ial consu	llting				
12.1	Does the reporting entity own any securities of a real estate holding of	company or otherwise hold real estate indirectly?				Yes [ X	]	No [	]
		Il estate holding company See 12.2							
	12.12 Number of p	arcels involved				16			
	12.13 Total book/a	djusted carrying value			9	5		11,25	6,616
12.2	If, yes provide explanation: The company has investments in debt securities in 16 parcels, which 2021 of debt is \$11,256,616	·	t value at [	ecembe	r 31,				
13.	FOR UNITED STATES BRANCHES OF ALIEN REPORTING ENTI	TIES ONLY:							
13.1	What changes have been made during the year in the United States	•							
	Does this statement contain all business transacted for the reporting Have there been any changes made to any of the trust indentures du	, ,				Yes [ Yes [	-	No [	]
13.4						] No [	-	No [	, ,
14.1	Are the senior officers (principal executive officer, principal financial of similar functions) of the reporting entity subject to a code of ethics, wa. Honest and ethical conduct, including the ethical handling of actual relationships;	officer, principal accounting officer or controller, o hich includes the following standards?	r persons p	erformin	g	Yes [ X			
4.11	<ul> <li>b. Full, fair, accurate, timely and understandable disclosure in the pe</li> <li>c. Compliance with applicable governmental laws, rules and regulation</li> <li>d. The prompt internal reporting of violations to an appropriate perso</li> <li>e. Accountability for adherence to the code.</li> <li>If the response to 14.1 is No, please explain:</li> </ul>	ons;	entity;						
14.2						Yes [	]	No [	Х]
	If the response to 14.2 is yes, provide information related to amendm								
	Have any provisions of the code of ethics been waived for any of the If the response to 14.3 is yes, provide the nature of any waiver(s).	•				Yes [	]	No [	Χ]

# **GENERAL INTERROGATORIES**

1	2	3	4
American Bankers			
Association (ABA) Routing			
Number	Issuing or Confirming Bank Name	Circumstances That Can Trigger the Letter of Credit	Amount
	BOAR	RD OF DIRECTORS	
	or sale of all investments of the reporting entity passed	upon either by the board of directors or a subordinate committee	Yes [X] No
Does the reporting	ng entity keep a complete permanent record of the production	ceedings of its board of directors and all subordinate committees	
Has the reporting entity an established procedure for disclosure to its board of directors or trustees of any material interest or affiliation on the part of any of its officers, directors, trustees or responsible employees that is in conflict with the official duties of such person?			
		FINANCIAL	
Accounting Princ	ciples)?	an Statutory Accounting Principles (e.g., Generally Accepted	Yes [ ] No
Total amount loa	ned during the year (inclusive of Separate Accounts, e	exclusive of policy loans): 20.11 To directors or other officers	\$
		20.12 To stockholders not officers	\$
		20.13 Trustees, supreme or grand (Fraternal Only)	•
Fotal amount of	loans outstanding at the end of year (inclusive of Sepa		
oolicy loans):	loans outstanding at the end of year (inclusive of Sepa	20.21 To directors or other officers	\$
, ,		20.22 To stockholders not officers	
		20.23 Trustees, supreme or grand (Fraternal Only)	
Were any assets	reported in this statement subject to a contractual oblireported in the statement?	igation to transfer to another party without the liability for such	
	amount thereof at December 31 of the current year:	21.21 Rented from others	
		21.22 Borrowed from others	
		21.23 Leased from others	\$
		21.24 Other	\$
guaranty associa	ent include payments for assessments as described in ation assessments?	n the Annual Statement Instructions other than guaranty fund or	Yes [ ] No
f answer is yes:		22.21 Amount paid as losses or risk adjustmen	
		22.22 Amount paid as expenses	
Door the reporting	na ontitu roport any amounto duo from paront, auboidia	22.23 Other amounts paidries or affiliates on Page 2 of this statement?	
f ves indicate a	ny amounts receivable from parent included in the Pag	ge 2 amount:	tes [ x ] No
Does the insurer	utilize third parties to pay agent commissions in which	the amounts advanced by the third parties are not settled in full within	
	o 24.1 is yes, identify the third-party that pays the agen		100 [ ] 110
		Is the	
		Third-Party Agent a Related Party	
		a Polaton Party	
	Name of Third-Party	(Yes/No)	

# **GENERAL INTERROGATORIES**

25.02	If no, give full and complete information relating thereto		
25.03	whether collateral is carried on or off-balance sheet. (an altern	program including value for collateral and amount of loaned securities, and native is to reference Note 17 where this information is also provided)	
25.04		nount of collateral for conforming programs as outlined in the Risk-Based Capital	\$
25.05	For the reporting entity's securities lending program, report an	nount of collateral for other programs.	\$
25.06	Does your securities lending program require 102% (domestic outset of the contract?	c securities) and 105% (foreign securities) from the counterparty at theYes [	] No [ ] N/A [ X ]
25.07	Does the reporting entity non-admit when the collateral receive	red from the counterparty falls below 100%?	] No [ ] N/A [ X ]
25.08		nding agent utilize the Master Securities lending Agreement (MSLA) to Yes [	] No [ ] N/A [ X ]
25.09	For the reporting entity's securities lending program state the	amount of the following as of December 31 of the current year:	
	25.092 Total book adjusted/carrying value of	al assets reported on Schedule DL, Parts 1 and 2reinvested collateral assets reported on Schedule DL, Parts 1 and 2	\$
26.1	control of the reporting entity, or has the reporting entity sold	g entity owned at December 31 of the current year not exclusively under the or transferred any assets subject to a put option contract that is currently in (5.03).	Yes [ X ] No [ ]
26.2	If yes, state the amount thereof at December 31 of the current	t year:  26.21 Subject to repurchase agreements  26.22 Subject to reverse repurchase agreements  26.23 Subject to dollar repurchase agreements  26.24 Subject to reverse dollar repurchase agreements  26.25 Placed under option agreements  26.26 Letter stock or securities restricted as to sale - excluding FHLB Capital Stock  26.27 FHLB Capital Stock  26.28 On deposit with states  26.29 On deposit with other regulatory bodies  26.30 Pledged as collateral - excluding collateral pledged in FHLB  26.31 Pledged as collateral to FHLB - including assets backing funding agreements  26.32 Other	\$
26.3	For category (26.26) provide the following:		
	Nature of Restriction	2 Description	3 Amount
27.1	Does the reporting entity have any hedging transactions repo	rted on Schedule DB?	Yes [ ] No [ X ]
27.2		am been made available to the domiciliary state?	
INES 2	7.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENT	ITIES ONLY:	
27.3	Does the reporting entity utilize derivatives to hedge variable	annuity guarantees subject to fluctuations as a result of interest rate sensitivity?	Yes [ ] No [ X ]
27.4		s: 27.41 Special accounting provision of SSAP No. 108 27.42 Permitted accounting practice 27.43 Other accounting guidance	Yes [ ] No [ X ]
27.5	following:  The reporting entity has obtained explicit approval from the Hedging strategy subject to the special accounting pure strategy and provides the impact of the hedging strategy strategy.	counting provisions of SSAP No. 108, the reporting entity attests to the members of the domiciliary state.  The domiciliary state is consistent with the requirements of VM-21. The states that the hedging strategy is incorporated within the establishment of VM-21 tagy within the Actuarial Guideline Conditional Tail Expectation Amount. The chindicates that the hedging strategy meets the definition of a Clearly Defined.	Yes [ ] No [ X ]
		Defined Hedging Strategy is the hedging strategy being used by the company in	
28.1	Hedging Strategy within VM-21 and that the Clearly I its actual day-to-day risk mitigation efforts.  Were any preferred stocks or bonds owned as of December 3	Defined Hedging Strategy is the hedging strategy being used by the company in 31 of the current year mandatorily convertible into equity, or, at the option of the	Yes [ ] No [ X ]
28.1	Hedging Strategy within VM-21 and that the Clearly I its actual day-to-day risk mitigation efforts.  Were any preferred stocks or bonds owned as of December 3 issuer, convertible into equity?	B1 of the current year mandatorily convertible into equity, or, at the option of the	
	Hedging Strategy within VM-21 and that the Clearly I its actual day-to-day risk mitigation efforts.  Were any preferred stocks or bonds owned as of December 3 issuer, convertible into equity?	81 of the current year mandatorily convertible into equity, or, at the option of the	\$
28.2 29.	Hedging Strategy within VM-21 and that the Clearly I its actual day-to-day risk mitigation efforts.  Were any preferred stocks or bonds owned as of December 3 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, reaction offices, vaults or safety deposit boxes, were all stocks, bonds custodial agreement with a qualified bank or trust company in Outsourcing of Critical Functions, Custodial or Safekeeping A	al estate, mortgage loans and investments held physically in the reporting entity's and other securities, owned throughout the current year held pursuant to a accordance with Section 1, III - General Examination Considerations, F.	\$
28.2 29.	Hedging Strategy within VM-21 and that the Clearly I its actual day-to-day risk mitigation efforts.  Were any preferred stocks or bonds owned as of December 3 issuer, convertible into equity?	81 of the current year mandatorily convertible into equity, or, at the option of the tyear.  al estate, mortgage loans and investments held physically in the reporting entity's and other securities, owned throughout the current year held pursuant to a accordance with Section 1, III - General Examination Considerations, F. greements of the NAIC Financial Condition Examiners Handbook?	\$

# **GENERAL INTERROGATORIES**

-		1 Name(s)		2 ocation(s)		3 Complete Explan		
	ve there been any o		changes, in the custodian(s) ide		•			
		1 ustodian	2 New Custodian		3 Date of Change	4 Reas		
								<u></u>
ma	ike investment deci	sions on behalf of the repo	nt advisors, investment manage orting entity. For assets that are counts"; "handle securities"]	e managed inte				
		1 Name of Firm or Indiv	idual	2 Affiliation	]			
Bai	rings LLC		iuuai		-			
29.	designated w .0598 For firms/indi total assets u	ith a "U") manage more th viduals unaffiliated with the nder management aggreg	table for Question 29.05, do an an 10% of the reporting entity's e reporting entity (i.e. designate tate to more than 50% of the re	s invested asse ed with a "U") li porting entity's	sted in the table for Que invested assets?	stion 29.05, does the	Yes	[ ] No
	table below.	viduals listed in the table f	or 29.05 with an affiliation code	e of "A" (affillate	ed) or "U" (unaπillated), p	provide the information t	TOT	5
_	entral Registration		2		3	4		Investme Managem Agreeme
1 ( ) 6						- · · · · · · · · · · · · · · · · · · ·	a.	
D	epository Number		of Firm or Individual		al Entity Identifier (LEI) 005EMQYELJUS5W59	SEC		(IMA) File
Doe Exc	6006	Barings LLCity have any diversified min (SEC) in the Investment		54930	005EMQYELJUS5W59	SEC		(IMA) File
Doe Exc	epository Number 6006 es the reporting ent	Barings LLCity have any diversified min (SEC) in the Investment	utual fundo roportod in Schodu	54930	005EMQYELJUS5W59	SEC	Yes	(IMA) File
Doe Exc If ye	epository Number 6006es the reporting entchange Commissiones, complete the fo	Barings LLCity have any diversified min (SEC) in the Investment	utual funds reported in Schedu Company Act of 1940 [Sectior	le D, Part 2 (di	005EMQYELJUS5W59	SEC	Yes	[ ] No
Doe Exc If ye	es the reporting entchange Commissiones, complete the formula CUSIP #	Barings LLCity have any diversified min (SEC) in the Investment llowing schedule:	utual funds reported in Schedu Company Act of 1940 [Sectior	le D, Part 2 (din 5(b)(1)])?	005EMQYELJUS5W59	SEC	Yes	[ ] No
Doe Exc If ye	es the reporting entchange Commissiones, complete the formula CUSIP #	Barings LLCity have any diversified min (SEC) in the Investment llowing schedule:	utual funds reported in Schedu Company Act of 1940 [Section Name o	le D, Part 2 (din 5(b)(1)])?	005EMQYELJUS5W59	SEC	Book/ Carryi	[ ] No

# **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	332,721,292	346,230,022	13,508,730
31.2 Preferred stocks			
31.3 Totals	332,721,292	346,230,022	13,508,730

32.2 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) for all brokers or custodians used as a pricing source?  Yes  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?  Yes  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 acutal 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 shown on a current private leter 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?  Yes  36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund:  a. The shares were purchased prior to January 1, 2019.  b. The reporting entity is holding capital c	
32.2 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) for 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?  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:  3 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:  3 Is used to be a considerable of the security self-designated 5GI securities.  3 Is a part of bilgor is current on all contracted interest and principal payments.  3 Is a part of the reporting entity is elf-designated 5GI securities?  3 Is By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security:  3 In the security was purchased prior to January 1, 2018.  3 In the reporting entity is holding capital commensurate with the NAIC Designation reported for the security.  3 In the reporting entity is not permitted to share this credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insuer and available for examination by state insurance regulators.  4 In the reporting entity is not permitted to share this credit rating of the PL security with the SVO.  4 Is the reporting entity is holding capital commensurate with the NAIC Designation reported for the security.  5 In the reporting entity is holding capital commensurate with the NAIC Designation reported for the security.  6 In the fund only or predominantly holds bonds in its portfolio.  7	
all brokers or custodians used as a pricing source?	es [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?	es [X] No []
34. By self-designating 5Gl securities, the reporting entity is certifying the following elements of each self-designated 5Gl 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 5Gl securities?  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 shown 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 elf-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-designated 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 to 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 compl	
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 shown 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-designated 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 to 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 o	es [ X ] No [ ]
<ul> <li>35. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security: <ul> <li>a. The security was purchased prior to January 1, 2018.</li> <li>b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.</li> <li>c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insurer and available for examination by state insurance regulators.</li> <li>d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO.</li> </ul> </li> <li>Has the reporting entity self-designated PLGI securities? <ul> <li>Yes</li> </ul> </li> <li>36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund: <ul> <li>a. The shares were purchased prior to January 1, 2019.</li> <li>b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.</li> <li>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 to January 1, 2019.</li> <li>d. The fund only or predominantly holds bonds in its portfolio.</li> <li>e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO.</li> <li>f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed.</li> <li>Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria?</li> <li>Yes</li> </ul> </li> <li>37. By rolling/renewing short-term or cash equivalent investments with continued reporting entity is certifying to the following: <ul> <li>a. The public credit rating(s) with annual surveillance assigned by an NAI</li></ul></li></ul>	
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 shown 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?  Yes  36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated 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 to 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 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  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 in 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 discretion of all involved parti	s [ ] No [ X ]
Has the reporting entity self-designated PLGI securities?	
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 to 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 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?	es [ ] No [ X ]
<ul> <li>(identified through a code (%) in those investment schedules), the reporting entity is certifying to the following:</li> <li>a. The investment is a liquid asset that can be terminated by the reporting entity on the current maturity date.</li> <li>b. If the investment is with a nonrelated party or nonaffiliate, then it reflects an arms-length transaction with renewal completed at the discretion of all involved parties.</li> <li>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.</li> <li>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.</li> </ul>	es [ ] No [X]
	No [ X ] N/A [ ]

# **GENERAL INTERROGATORIES**

# OTHER

	1 Name	2 Amount Paid	
	American Council of Life Insurers (ACLI) US Chamber of Commerce	5,808	
9.1	Amount of payments for legal expenses, if any?		\$ 18,27
9.2	List the name of the firm and the amount paid if any such payment represented 25% or more of the total paymenting the period covered by this statement.	nents for legal expenses	
9.2		eents for legal expenses  2  Amount Paid	
	during the period covered by this statement.	2 Amount Paid	7,28
0.1	during the period covered by this statement.  1 Name	2 Amount Paid  ents of government, if and the entert expenditures in	

# **GENERAL INTERROGATORIES**

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

If ye	s, indicate premium earned on U.S. business only			\$
	at portion of Item (1.2) is not reported on the Medicare Supplement Insurance Exp Reason for excluding:			\$
Indic	cate amount of earned premium attributable to Canadian and/or Other Alien not in			\$
Indic	cate total incurred claims on all Medicare Supplement insurance.			\$
Indiv	vidual policies:	Most current the		_
			ium earnedred claims	
			covered lives	
		All voors prior t	most surrent three vegra	
			nost current three years	
		·	red claims	
			covered lives	•
		1.00 Number of	covered lives	
Grou	up policies:	Most current the	ree years:	
			ium earned	\$
		1.72 Total incur	red claims	\$
			covered lives	
		A.U		
			o most current three years iium earned	
			red claims	
			covered lives	
		1.70 Number of	COVERCE IIVES	
Hea	Ith Test:			
		1 Current Year	2	
2.1	Premium Numerator			
2.2	Premium Denominator			
2.3	Premium Ratio (2.1/2.2)			
2.4	Reserve Numerator			
2.5	Reserve Denominator			
2.6	Reserve Ratio (2.4/2.5)			
Doe	s this reporting entity have Separate Accounts?			Yes [ X ] No [
If ye	s, has a Separate Accounts Statement been filed with this Department?		Yes	[X] No [] N/A [
Wha	at portion of capital and surplus funds of the reporting entity covered by assets in	the Separate Accounts staten	nent, is not currently	400
distr	ibutable from the Separate Accounts to the general account for use by the general	al account?		\$408,
	e the authority under which Separate Accounts are maintained: necticut General Statutes, Section 33a-433 and 33a-459			
Was	s any of the reporting entity's Separate Accounts business reinsured as of Decem	ber 31?		Yes [ X ] No [
Has	the reporting entity assumed by reinsurance any Separate Accounts business as	of December 31?		Yes [ ] No [ X
If the	e reporting entity has assumed Separate Accounts business, how much, if any, re	singurance assumed receivab	lo for roingurance of Sona	urato
Acco	ounts reserve expense allowances is included as a negative amount in the liability"?	y for "Transfers to Separate A	ccounts due or accrued	
For	reporting entities having sold annuities to another insurer where the insurer purch	asing the annuities has obtain	ned a release of liability fro	om the
clain	nant (payee) as the result of the purchase of an annuity from the reporting entity	only:	•	
	ount of loss reserves established by these annuities during the current year:			
List	the name and location of the insurance company purchasing the annuities and the	e statement value on the pure	chase date of the annuities	S.
	1		2	
	·		Statement '	
1			on Purchase	
			0+ Ann	riae
	P&C Insurance Company And Location		of Annuit (i.e., Present	

# **GENERAL INTERROGATORIES**

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

5.1	Do you act as a custodian for health savings accoun	ts?					Yes [ ]	No [X]
5.2	If yes, please provide the amount of custodial funds	held as of the re	porting 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 administe	ered as of the re	porting date				\$	
6.1 6.2	Are any of the captive affiliates reported on Schedule If the answer to 6.1 is yes, please provide the following		orized reinsurers?			Yes [	] No [ X	] N/A [ ]
	1	2	3	4		Supporting Reserv		
	Company Name	NAIC Company Code	Domiciliary Jurisdiction	Reserve Credit	5 Letters of Credit	6 Trust Agreements	7 Other	
7.	Provide the following for individual ordinary life insurceded):	7.1 Direct Pre	J.S. business only emium Written		ar (prior to reinsura		\$	.35,987,654
		*Ordir	nary Life Insurance	Includes				
	Term (whether full un Whole Life (whether f Variable Life (with or Universal Life (with or Variable Universal Life	ull underwriting, without seconda without second	limited underwritin ry gurarantee) ary gurarantee)	g,jet issue,"short fo				
8.	Is the reporting entity licensed or chartered, registered	ed, qualified, elig	gible or writing bus	iness in at least two	o states?		Yes [ X ]	No [ ]
8.1	If no, does the reporting entity assume reinsurance to the reporting entity?						Yes [ ]	No [ ]
ife, Ac	cident and Health Companies Only:							
9.1	Are personnel or facilities of this reporting entity used by this reporting entity (except for activities such as a studies)?	administration of	jointly underwritte	n group contracts	and joint mortality	or morbidity		No [ ]
9.2	Net reimbursement of such expenses between report	ting entities:		0.04.5				0 504 000
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 include	ded in:		40.04			•	
11.	For stock reporting entities only:							
11.1	Total amount paid in by stockholders as surplus fund	ds since organiz	ation of the reporti	ng entity:			\$	
12.	Total dividends paid stockholders since organization	of the reporting	entity:	12 11	Cash		\$	
13.1	Does the reporting entity reinsure any Workers' Com Reinsurance (including retrocessional reinsurance) a benefits of the occupational illness and accident exp written as workers' compensation insurance.	assumed by life	and health insurer	s of medical, wage	loss and death		Yes [ ]	No [ X ]
13.2	If yes, has the reporting entity completed the Worker	s' Compensatio	n Carve-Out Supp	lement to the Annu	ual Statement?		Yes [ ]	No [ ]
13.3	If 13.1 is yes, the amounts of earned premiums and	claims incurred	in this statement a	ire:	2	3		
			Reinsura Assume		z surance eded	Net Retained		
	13.31 Earned premium							
	13.32 Paid claims							

# **GENERAL INTERROGATORIES**

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

13.4	If reinsurance assumed included amounts with attachment points below \$1,000,000, the distribution of the amounts report 13.34 for Column (1) are:	orted in Lines 13.31 and				
	1	2				
	Attachment Earned Point Premium	Claim Liability and Reserve				
	13.41 <\$25,000					
	13.42 \$25,000 - 99,999					
	13.43 \$100,000 - 249,999					
	13.44 \$250,000 - 999,999					
	13.45 \$1,000,000 or more					
13.5	What portion of earned premium reported in 13.31, Column 1 was assumed from pools?		.\$			
raterna	al Benefit Societies Only:					
14.	Is the reporting entity organized and conducted on the lodge system, with ritualistic form of work and representative form	ı of government?	Yes [	] No	[ ]	
15.	How often are meetings of the subordinate branches required to be held?					
16.	How are the subordinate branches represented in the supreme or governing body?					
17.	What is the basis of representation in the governing body?					
18.1	How often are regular meetings of the governing body held?					
18.2	When was the last regular meeting of the governing body held?					
18.3	When and where will the next regular or special meeting of the governing body be held?					
18.4	How many members of the governing body attended the last regular meeting?					
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.	What are the limiting ages for admission?					
23.	What is the minimum and maximum insurance that may be issued on any one life?					
24.	Is a medical examination required before issuing fit of iffication applications and in the state of the state	-11-4 1 :-:4:-4:0	Yes [	-		
25. 26.1		allot and initiation? Yes [	Yes [ ] No [	-	-	1
26.2		169 [	Yes [			1
27.	What proportion of first and subsequent year's payments may be used for management expenses?		100 [	1 110	. ,	
	27.11 First Year					%
	27.12 Subsequent Years					_ %
28.1 28.2	If so, what amount and for what purpose?		.\$			
29.1	Does the reporting entity pay an old age disability benefit?			1 No.	гі	
29.2	If yes, at what age does the benefit commence?			] 110	l J	
30.1	Has the constitution or have the laws of the reporting entity been amended during the year?		Yes [	] No	[ ]	
30.2	If yes, when?		-			
31.	Have you filed with this Department all forms of benefit certificates issued, a copy of the constitution and all of the laws, in force at the present time?	rules and regulations	Yes [	1 No	[ ]	
32.1	State whether all or a portion of the regular insurance contributions were waived during the current year under premium-	-paying certificates on				
32.2	account of meeting attained age or membership requirements?		Yes [ ] No [	·	[ ]  /A [	1
32.3	If yes, explain	•		] 14	ן אינו	1
33.1	Has the reporting entity reinsured, amalgamated with, or absorbed any company, order, society, or association during the			1 No	[ ]	
	If yes, was there any contract agreement, or understanding, written or oral, expressed or implied, by means of which any	•	103 [	] 140	ı ı	
	director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, common director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, common director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, common director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, common director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, common director, trustee, and the common director dire	nission,				
	emolument, or compensation of any nature whatsoever in connection with, on an account of such reinsurance, amalgam 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, society o	or association, any				-
35.1	claims of any nature whatsoever against this reporting entity, which is not included in the liabilities on Page 3 of this state. Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased.		Yes [			
35.1 35.2	lf yes, what is the date of the original lien and the courts and ting the court of	surprus :	Yes [	] IVO	į J	
55.2	in you, mucho and date of the original north and the order of the original north and the					
	Ou anding Date Lie mount					
	Date Liel mount					

# **FIVE-YEAR HISTORICAL DATA**

Show amounts in whole dollars only, no cents; show percentages to one decimal place, i.e. 17.6.
\$000 omitted for amounts of life insurance

		\$000 omitted for amo			4	<i>E</i>
		2021	2 2020	3 2019	4 2018	5 2017
	Life Insurance in Force					
	(Exhibit of Life Insurance)					
1.	Ordinary - whole life and endowment (Line 34, Col.	0.705.444	0.005.000	0.007.044	4 007 440	4 077 404
•	4)	8,785,414	8,935,990 [	9,097,214	4,667,416	4,9/7,101
2.	Ordinary - term (Line 21, Col. 4, less Line 34, Col. 4)	3,135	2,579	2,909	3,364	3,922
3.	Credit life (Line 21, Col. 6)					·······
4.	Group, excluding FEGLI/SGLI (Line 21, Col. 9 less					
	Lines 43 & 44, Col. 4)			2,233,751		
	Industrial (Line 21, Col. 2)					
6.	FEGLI/SGLI (Lines 43 & 44, Col. 4)	11 001 551	44 400 000	44 000 074	11 501 101	11 005 017
	Total (Line 21, Col. 10)	11,001,554	11,169,036	11,333,874	11,534,481	11,925,817
7.1	Total in force for which VM-20 deterministic/stochastic reserves are calculated					
	New Business Issued					
	(Exhibit of Life Insurance)					
8.	Ordinary - whole life and endowment (Line 34, Col.					
	2)					
9.	Ordinary - term (Line 2, Col. 4, less Line 34, Col. 2)					
	Credit life (Line 2, Col. 6)					
11.	Group (Line 2, Col. 9)					
12.	Industrial (Line 2, Col. 2)	1 011	2 024	620	1 115	6 060
13.	Total (Line 2, Col. 10)  Premium Income - Lines of Business	ا, ۱٫۵۱۱	2,034	020	611,110	0,863
	(Exhibit 1 - Part 1)					
14.	Industrial life (Line 20.4, Col. 2)					
	Ordinary-life insurance (Line 20.4, Col. 3)					
	Ordinary-individual annuities (Line 20.4, Col. 4)					
16	Credit life (group and individual) (Line 20.4, Col. 5)					
	Group life insurance (Line 20.4, Col. 6)					
	Group annuities (Line 20.4, Col. 7)					
	A & H-group (Line 20.4, Col. 8)					
	A & H-credit (group and individual) (Line 20.4					
	Col. 9)					
	A & H-other (Line 20.4, Col. 10)					
19.	Aggregate of all other lines of business (Line 20.4,Col. 11)					
20.	Total	11,403,237	(4,338,246)	2,942,222	870,930	1,590,674
	Balance Sheet (Pages 2 & 3)	, ,		, ,	ŕ	
21.	Total admitted assets excluding Separate Accounts					
	business (Page 2, Line 26, Col. 3)	488,015,749	493,287,942	499,531,297	504,094,528	495,872,034
22.	Total liabilities excluding Separate Accounts business (Page 3, Line 26)	222 586 158	218 778 416	206 076 975	104 162 672	200 565 666
23.	Aggregate life reserves (Page 3, Line 1)				143,984,461	
	Excess VM-20 deterministic/stochastic reserve over					
	NPR related to Line 7.1					
24.	Aggregate A & H reserves (Page 3, Line 2)					
25.	Deposit-type contract funds (Page 3, Line 3)				15,076,197	
	Asset valuation reserve (Page 3, Line 24.01)		, ,		, ,	5,070,022
27.	Capital (Page 3, Lines 29 and 30)	2,500,200	2,500,200	2,500,200	, ,	
28.	Surplus (Page 3, Line 37)	262,929,391	272,009,326	290,954,122	307,431,656	292,806,167
20	Cash Flow (Page 5)  Net Cash from Operations (Line 11)	17 015 650	0 171 505	7 400 660	17 004 050	(0.400.067)
29.	Risk-Based Capital Analysis	17,210,000	0, 171,030 [	1,409,003	1 ,004 ,008	(0,480,307)
30.	Total adjusted capital	271 485 841	281 702 415	299 739 518	315 643 819	300 376 389
	Authorized control level risk - based capital					
01.	Percentage Distribution of Cash, Cash					
	Equivalents and Invested Assets					
	(Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3)					
20	x 100.0 Bonds (Line 1)	E0 6	EE 4	ee o	74.0	67.0
	Stocks (Lines 2.1 and 2.2)					
33. 34.	Mortgage loans on real estate(Lines 3.1 and 3.2)	0.0				
35.	Real estate (Lines 4.1, 4.2 and 4.3)					
	Cash, cash equivalents and short-term investments					
	(Line 5)	28.0	23.4	13.0	5.1	11.9
37.	Contract loans (Line 6)	21.0	21.0	20.8	20.0	20.3
38.	Derivatives (Page 2, Line 7)					
39.	Other invested assets (Line 8)					
40.	Receivables for securities (Line 9)					
41.	Securities lending reinvested collateral assets (Line 10)					
42.	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

# **FIVE-YEAR HISTORICAL DATA**

(Continued)

			tinued)			
		1 2021	2 2020	3 2019	4 2018	5 2017
	Investments in Parent, Subsidiaries and					
44.	Affiliates  Affiliated bonds (Schedule D Summary, Line 12,	000 100			6 071 740	7 000 665
45.	· · · · · · · · · · · · · · · · · · ·				0,271,740	7,099,000
46.	Line 18, Col. 1)  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)					
48.	Affiliated mortgage loans on real estate					
49.	All other affiliated					
50.	Total of above Lines 44 to 49	992,122			6,271,740	7,099,665
51.	Total Investment in Parent included in Lines 44 to 49 above					
	Total Nonadmitted and Admitted Assets					
52.	Total nonadmitted assets (Page 2, Line 28, Col. 2) Total admitted assets (Page 2, Line 28, Col. 3)					
53.	I otal admitted assets (Page 2, Line 28, Col. 3)	5,462,847,319	5,352,119,790	5, 117, 785, 433	4,859,690,475	4,960,548,191
54.	Net investment income (Exhibit of Net Investment Income)	12 821 868	15 170 564	18 286 010	17 075 474	17 590 030
55.	Realized capital gains (losses) (Page 4. Line 34					
56.	Column 1)	(51,270)	(133,507)	(45,946)		18,418
00.	Column 1)	19,696	(140,180)	20,039	(16,263)	(41,250)
57.	Total of above Lines 54, 55 and 56	12,790,294	14,905,876	18,261,012	17, 108, 921	17,567,198
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)	82,220,794	44,959,382	48,784,770	46,611,466	44,508,798
59.	Total contract/certificate benefits - A & H (Lines 13 & 14, Col. 6)					
60.	Increase in life reserves - other than group and annuities (Line 19, Col. 2)					2,086,763
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 Exhibit 7, Col. 2, Line 2) x 100.0	(5.8)	(8.4)	63.6	234.7	90.2
64.	Lapse percent (ordinary only) [(Exhibit of Life Insurance, Col. 4, Lines 14 & 15) / 1/2 (Exhibit of Life Insurance, Col. 4, Lines 1 & 21)] x 100.0			3.4	5.3	6.0
65.	A & H loss percent (Schedule H, Part 1, Lines 5 and					
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.	Incurred losses on prior years' claims - group health (Schedule H, Part 3, Line 3.1 Col. 2)					
69.	Prior years' claim liability and reserve - group health (Schedule H, Part 3, Line 3.2 Col. 2)					
70.	Incurred losses on prior years' claims-health other than group (Schedule H, Part 3, Line 3.1 Col. 1 less Col. 2)					
71.	Prior years' claim liability and reserve-health other than group (Schedule H, Part 3, Line 3.2 Col. 1 less Col. 2)					
	Net Gains From Operations After Dividends to Policyholders/Members' Refunds and Federal Income Taxes by Lines of Business (Page 6.x, Line 33)					
72.	Industrial life (Page 6.1, Col. 2)					
73.	Ordinary - life (Page 6.1, Col. 1 less Cols. 2, 10 and 12)			12,281,826	6,511,876	11,165,646
74.	Ordinary - individual annuities (Page 6, Col. 4)	655,263	(153,602)	(153,003)	(44,312)	23,009
75.	Ordinary-supplementary contracts					(128,868
76.	Credit life (Page 6.1, Col. 10 plus Page 6.2, Col. 7)					0.740.507
77. 70	Group life (Page 6.2, Col. 1 Less Cols. 7 and 9) Group annuities (Page 6, Col. 5)					
78. 79.	A & H-group (Page 6.5, Col. 3)					
79. 80.	A & H-credit (Page 6.5, Col. 10)					
81.	A & H-other (Page 6.5, Col. 1 less Cols. 3 and 10)					
82.						
83.	Fraternal (Page 6, Col. 7)					
	Total (Page 6, Col. 1)			-, , -	18,225,866	14,803,294
NOTE:	If a party to a merger, have the two most recent years of t	this exhibit been restate	d due to a merger in cor	mpliance with the disclo	sure	



DIRECT BUSINESS IN THE STATE OF Grand Total

DURING THE YEAR 2021

NAIC Group C	ode 0435	LI	FE INSURANCE		NAIC Compa	ny Code 70416
	DIRECT PREMIUMS AND ANNUITY CONSIDERATIONS	1 Ordinary	2 Credit Life (Group and Individual)	3 Group	4 Industrial	5 Total
		28,954,770				28,954,770
,		16,000				
			XXX		XXX	
5. Totals (S	Sum of Lines 1 to 4)	28,970,770				28,970,770
Life insurance:	DIRECT DIVIDENDS TO ICYHOLDERS/REFUNDS TO MEMBERS					
	to pay renewal premiums					
endo	to provide paid-up additions or shorten the owment or premium-paying period					
6.4 Other						
	Sum of Lines 6.1 to 6.4)					
Annuities:	and an left are describ					
7.1 Paid in c	ash or left on deposit					
	otals (Lines 6.5 plus 7.4)					
	RECT CLAIMS AND BENEFITS PAID					
	enefits	111 400 500		10 060 000		100 660 600
10. Matured						123,002,002
		1.003.672				1,003,672
,		47,401,364				
13. Aggrega	te write-ins for miscellaneous direct claims					
		386,289				
15. Totals		160.193.845		12.260.082		172,453,92
DETAIL	S OF WRITE-INS	,,		, ,		,,.
1301						
1302						
1303						
1398. Summar	y of Line 13 from overflow page					
	ines 1301 thru 1303 plus 1398) (Line 13					
		Cradit Life	1		<u>-</u>	

	,	Ordinan (	_	redit Life		Craun	1.	aduatrial		Total
		Ordinary		and Individual)		Group	I.	ndustrial		
DIRECT DEATH	1	2	3	4	5	6	7	8	9	10
BENEFITS AND			No. of							
MATURED	No. of		Ind.Pols.				No. of		No. of	
ENDOWMENTS	Pols. &		& Gr.		No. of		Pols. &		Pols. &	
INCURRED	Certifs.	Amount	Certifs.	Amount	Certifs.	Amount	Certifs.	Amount	Certifs.	Amount
16. Unpaid December 31, prior										
year	39	14,356,238			7	4, 186, 049			46	18,542,28
year	429	112,917,613			26	14,284,213			455	127,201,826
Settled during current year:										
18.1 By payment in full	413	111,890,793			23	12,260,082			436	124 , 150 , 87
18.2 By payment on compromised claims	,									
18.3 Totals paid	413	111,890,793			23	12,260,082			436	124 , 150 , 87
18.4 Reduction by compromise										
18.5 Amount rejected										
18.5 Amount rejected	413	111,890,793			23	12,260,082			436	124 , 150 , 875
<ol><li>Unpaid Dec. 31, current</li></ol>										
year (16+17-18.6)	55	15,383,058			10	6,210,180			65	21,593,238
POLICY EXHIBIT					No. of Policies					
20. In force December 31, prior	07 00E	0 000 560 076		(-)	-	0 005 500 001			07 010	11 164 157 65
year21. Issued during year										11, 164, 157, 65 1, 310, 629
22. Other changes to in force (Net)	(1,187)	(151,330,795)				(12,583,645)			(1, 187)	(163,914,44
23. In force December 31 of current year	26,618	8,788,549,210		(a)	5	2,213,004,635			26,623	11,001,553,840

	carront year	,	-,,	(α/		-	_,,			,	,-
(a	a) Includes Individual Credit Life I	nsurance p	rior year \$		, current year \$	\$			•		
	Includes Group Credit Life Insu	rance Loar	ns less than or equ	al to 60 months	at issue, prior year	r \$		, CI	urrent year \$		
	Loans greater than 60 months	at issue Bl	JT NOT GREATE	R THAN 120 MO	NTHS, prior year \$	\$		, CI	urrent year \$		

# **ACCIDENT AND HEALTH INSURANCE**

	<i>-</i>	CODEN AND	IILALIII IIIOOI	VAIIOE		
		1	2	3	4	5
				Policyholder Dividends		
				Paid, Refunds to		
			Direct Premiums	Members or Credited		Direct Losses
		Direct Premiums	Earned	on Direct Business	Direct Losses Paid	Incurred
24.	Group Policies (b)					
24.1	Federal Employees Health Benefits Plan premium (b)					
24.2	Credit (Group and Individual)					
24.3	Collectively renewable policies/certificates (b)					
	Medicare Title XVIII exempt from state taxes or fee					
	Other Individual Policies:					
25.1	Non-cancelable (b)					
	Guaranteed renewable (b)					
	Non-renewable for stated reasons only (b)					
	Other accident only					
	All other (b)					
26.	Totals (Lines 24 + 24.1 + 24.2 + 24.3 + 24.4 + 25.6)		l			l
۷٥.	Tutais (Lines 24 + 24.1 + 24.2 + 24.3 + 24.4 + 25.0)	l				

(b) For health business on indicated lines report: Number of persons insured under PPO managed care products and number of persons insured under indemnity only products

Additional accidental death benefits included in life certificates were in amount \$

If not, how are such expenses met?

# ANNUAL STATEMENT FOR THE YEAR 2021 OF THE MML Bay State Life Insurance Company

# **EXHIBIT OF LIFE INSURANCE**

(\$000 Omitted for Amounts of Life Insurance)

	T.			ed for Amounts of						,
		ustrial		inary		up and Individual)		Group		10
	1	2	3	4	5 Number of Individual Policies and Group	6	Numbe 7	er of 8	9	Total
	Number of Policies	Amount of Insurance	Number of Policies	Amount of Insurance	Certificates	Amount of Insurance	Policies	Certificates	Amount of Insurance	Amount of Insurance
In force end of prior year			27.805	8,938,569				3,067	2,230,467	11, 169,03
Issued during year			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,311				,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,31
Reinsurance assumed				, +						, , , , , , , , , , , , , , , , , , , ,
Revived during year			9	2,174						2,17
5. Increased during year (net)			4	123,014					1,689	124,70
6. Subtotals, Lines 2 to 5			13	126,499					1.689	128, 18
7. Additions by dividends during year			XXX		XXX		XXX	XXX	,	,
Aggregate write-ins for increases		-								
9. Totals (Lines 1 and 6 to 8)			27,818	9,065,068			5	3,067	2,232,156	11,297,22
Deductions during year:							<b>.</b>		2,202,100	
10. Death			264	104,149			XXX	26	14,273	118,42
11. Maturity			204	107, 170			XXX	20	17,270	110,42
12. Disability							XXX			
•			4	203						20
, ,			675	121, 192						121 , 19
			232	48,080						48,08
15. Lapse			232	46,000						46,00
16. Conversion			OF	0.000			XXX	XXX	XXX 4.878	7.77
17. Decreased (net)			25	2,895					4,878	
18. Reinsurance										
19. Aggregate write-ins for decreases										
20. Totals (Lines 10 to 19)			1,200	276,519				26	19, 151	295,67
21. In force end of year (b) (Line 9 minus Line 20)			26,618					3,041	2,213,005	11,001,55
22. Reinsurance ceded end of year			XXX	3,959,759			XXX	XXX	2,213,005	6, 172, 76
23. Line 21 minus Line 22	XXX		XXX	4,828,790	XXX	(a)	XXX	XXX		4,828,79
DETAILS OF WRITE-INS										
0801.										
0802.										
0803.										
0898. Summary of remaining write-ins for Line 8 from ove	erflow									
page.										
0899. TOTALS (Lines 0801 thru 0803 plus 0898) (Line 8										
above)										
1901.										
1902.		-		<del> </del>	-				<del> </del>	
1903.				<del> </del>	<del> </del>				<del> </del>	
1998. Summary of remaining write-ins for Line 19 from ov page.										
1999. TOTALS (Lines 1901 thru 1903 plus 1998) (Line 19 above)	)									
Life, Accident and Health Companies Only:	·		•	•	•		•		•	
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 (in the final total) in the final total in the final to		es) number of certificate	es	, Amount \$						

........, Does the society collect any contributions from members for general expenses of the society under fully paid-up certificates? Yes [ ] No [ ]

# **EXHIBIT OF LIFE INSURANCE**

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

	ADDITIONAL IN CHINATION ON INCONANCE IN CONCELLED OF TEAK				
		Indu	strial	Ordi	inary
		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	11,335
26	Debit ordinary insurance	VVV	VVV		

# ADDITIONAL INFORMATION ON ORDINARY INSURANCE

			uring Year in Line 2)	In Force End of Year (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	
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	54	3,045
34.	Totals, whole life and endowment		1,311	26,564	8,785,414
35.	Totals (Lines 31 to 34)		1.311	26.618	8.788.549

## **CLASSIFICATION OF AMOUNT OF INSURANCE BY PARTICIPATING STATUS**

		Issued During Year (Included 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	1,311		8,788,549		
38.	Credit Life (Group and Individual)					
39.	Group			2,213,005		
40.	Totals (Lines 36 to 39)	1,311		11,001,554		

ADDITIONAL INFORMATION ON CREDIT LIFE AND GROUP INSURANCE

	ADDITIONAL INFORMATION ON	CKEDII LIFE AND	GROUP INSURANC	· <b>C</b>	
		Cred	lit Life	Gro	oup
		1 umbe Individ I	2	3	4
		Ce it s	surance	Number of Certificates	Amount of Insurance
41.	Amount of insurance included in Line 2 ceded to get a mies	XX		XXX	
42.	Number in force end of year if the number under ared great is a sted on a pro-rata basis				xxx
43.	Federal Employees' Group Life Insurance included in Line 21				
44.	Servicemen's Group Life Insurance included in Line 21				
45.	Group Permanent Insurance included in Line 21				

# ADDITIONAL ACCIDENTAL DEATH BENEFITS

46. Amount of additional accidental death benefits in force end of year under ordinary policies	40.442
40. Amount of additional accidental death benefits in force end of year under ordinary policies	70,772



# POLICIES WITH DISABILITY PROVISIONS

	1 OLIGILO TITTI DIOMBILITI I NO VIGINIO								
			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			9,880	1,610,380				
49.	Disability Income								
50.	Extended Benefits			XXX	XXX				
	Other								
52.	Total		(a)	9,880	(a) 1,610,380		(a)		(a)

<sup>(</sup>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

	SUPPLEMENTARY CONTRACTS							
		Ordi	inary	Gı	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	18	91					
2.	Issued during year		22					
3.	Reinsurance assumed							
4.	Increased during year (net)							
5.	Total (Lines 1 to 4)	18	113					
	Deductions during year:							
6.	Decreased (net)	18	15					
7.	Reinsurance ceded							
8.	Totals (Lines 6 and 7)	18	15					
9.	In force end of year (line 5 minus line 8)		98					
10.	Amount on deposit		(a)16,209,406		(a)			
11.	Income now payable		72					
12.	Amount of income payable	(a)	(a) 491,418	(a)	(a)			

# ANNUITIES

		ANNUITIES	dinary		Group
			ulriary		Joup
		1	2	3	4
		Immediate	Deferred	Contracts	Certificates
1.	In force end of prior year		.  5	55	
2.	In force end of prior year				
3.	Reinsurance assumed				
4.	Increased during year (net)				
5.	Totals (Lines 1 to 4)		5	55	
	Deductions during year:				
6.	Decreased (net)			55	
7.	Reinsurance ceded				
8.	Totals (Lines 6 and 7)		;	55	
9.	Totals (Lines 6 and 7)		50	00	
	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) 43,910,4°	72 XXX	(a)

# ACCIDENT AND HEALTH INSURANCE

		Gro	oup	Cr	edit	(	Other
		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)

<sup>(</sup>a) See the Annual Audited Financial Reports section of the annual statement instructions.

# FORM FOR CALCULATING THE INTEREST MAINTENANCE RESERVE

# INTEREST MAINTENANCE RESERVE

		1 Amount
1.	Reserve as of December 31, Prior Year	606,773
2.	Current year's realized pre-tax capital gains/(losses) of \$1, 106,816 transferred into the reserve net of taxes of \$232,431	874,386
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)	1,481,159
5.	Current year's amortization released to Summary of Operations (Amortization, Line 1, Column 4)	. 274,299
6.	Reserve as of December 31, current year (Line 4 minus Line 5)	1,206,859

# **AMORTIZATION**

Reserve as of December 31,   Prior Year		1	2	3	4	
2. 2022     136,752     .151,215     287,967       3. 2023     107,868     .139,995     .247,953       4. 2024     75,622     .113,115     .188,737       5. 2025     .96,957     .84,474     .121,431       6. 2026     .14,930     .55,122     .70,652       7. 2027     .113,73     .39,790     .51,163       8. 2028     .8,179     .37,673     .45,852       9. 2022     .3,270     .95,444     .38,713       10. 2030     .1,079     .33,449     .34,528       11. 2031     .2,230     .31,107     .33,337       12. 2032     .2,337     .27,100     .29,437       13. 2033     .2,333     .21,541     .24,074       14. 2034     .2,868     .15,655     .18,23       15. 2035     .1,853     .9,381     .11,234       16. 2036     .867     .3,127     .3,944       17. 2037     .426     .426     .426       18. 2039     .(194)     .(194)     .(194)       20. 2040     .(100)     .(100)     .(100)       21. 2041     .(1)     .(11)     .(11)       22. 2045     .(2)     .(2)     .(3)     .(4)       24. 2044     .(5)     .(6)     .(		Year of Amortization	Reserve as of December 31,	Current Year's Realized Capital Gains/(Losses) Transferred into the	Adjustment for Current Year's Liability Gains/(Losses) Released From	Balance Before Reduction for Current Year's Amortization
3. 2023	1.	2021	198,080	76,219		274,299
4.     2024     75,622     113,115     188,737       5.     2025     36,957     84,474     121,431       6.     2026     14,930     55,122     70,052       7.     2027     113,73     39,790     51,633       8.     2028     8,179     37,673     45,882       9.     2029     3,270     35,443     39,713       10.     2030     1,079     33,449     34,528       11.     2031     2,230     31,107     33,337       12.     2032     2,337     27,100     29,437       13.     2033     2,533     21,541     24,074       14.     2034     2,588     15,635     19,223       15.     2035     1,863     9,381     11,234       16.     2036     867     3,127     3,984       17.     2037     426     426       18.     2039     (194)     (194)     (194)       20.     2040     (108)     (108)       21.     2044     (6)     (6)     (6)       22.     2045     (6)     (7)       23.     2046     (2040     (2040     (2040     (2040     (2040     (2040     (20	2.	2022	136,752	151,215		287,967
5. 2025     96,957     84,474     121,431       6. 2026     14,930     55,122     70,052       7. 2027     11,373     39,790     51,163       8. 2028     8,179     37,673     45,852       9. 2029     3,270     35,443     38,713       10. 2030     1,079     33,449     45,528       11. 2031     2,230     31,107     33,337       12. 2032     2,337     27,100     29,437       13. 2033     2,533     21,541     24,074       14. 2034     2,588     15,635     18,232       15. 2035     1,1853     9,381     11,234       16. 2036     867     3,127     3,994       17. 2037     426     426     426       18. 2038     59     59     59       19. 2039     (194)     (194)     (194)       20. 2040     (100)     (100)     (100)       21. 2041     (11)     (11)     (11)       22. 2042     (111)     (111)     (111)       23. 2043     (6)     (6)     (6)       24. 2044     2046     2046       25. 2046     2046     2049     2050       31. 2051 and Later     30,2050     3051 and Later <td>3.</td> <td>2023</td> <td>107,958</td> <td>139,995</td> <td></td> <td>247,953</td>	3.	2023	107,958	139,995		247,953
6. 2026	4.	2024	75,622	113,115		188,737
7.     2027     11,373     39,790     51,163       8.     2028     8,179     37,673     45,852       9.     2029     3,270     35,443     38,713       10.     2030     1,079     33,449     94,528       11.     2031     2,230     31,107     33,337       12.     2032     2,337     27,100     29,437       13.     2033     2,533     21,541     24,074       14.     2034     2,588     15,635     18,223       15.     2036     1,863     9,381     11,234       16.     2036     667     3,127     3,944       17.     2037     426     428       18.     2038     59     59       19.     2039     (194)     (194)     (194)       20.     2040     (108)     (108)     (108)       21.     2041     (11)     (11)     (11)       22.     2043     (6)     (6)     (6)       24.     2044     (9)     (9)       22.     2045     (9)     (9)     (9)       23.     2045     (9)     (9)     (9)       24.     2044     (9)     (9)     (9) <td>5.</td> <td>2025</td> <td></td> <td>84,474</td> <td></td> <td>121,431</td>	5.	2025		84,474		121,431
8. 2028     8,179     37,673     45,852       9. 2029     3,270     35,443     38,713       10. 2030     1,079     33,449     34,528       11. 2031     2,230     31,107     33,337       12. 2032     2,337     27,100     29,437       13. 2033     2,533     21,541     24,074       14. 2034     2,588     15,635     18,223       15. 2035     1,853     9,381     11,234       16. 2036     867     3,127     3,994       17. 2037     426     426     426       18. 2038     59     59     59       19. 2039     (194)     (194)     (194)       20. 2040     (108)     (108)     (108)       21. 2041     (1)     (1)     (1)       22. 2042     (11)     (11)     (11)       23. 2043     (6)     (6)     (6)       24. 2044     2044     2040     (2040     (30,200)       28. 2048     2049     30, 2050     30, 2050     31, 2051 and Later	6.	2026	14,930	55 , 122		70,052
9. 2029	7.	2027	11,373	39,790		51, 163
10. 2030	8.	2028		37,673		45,852
11.     2031     2,230     31,107     33,337       12.     2032     2,337     27,100     29,437       13.     2033     2,533     21,541     24,074       14.     2034     2,588     15,635     18,223       15.     2035     1,853     9,381     11,234       16.     2036     867     3,127     3,994       17.     2037     426     426     426       18.     2038     59     59       19.     2039     1194)     (194)       20.     2040     (108)     (108)       21.     2041     (1)     (11       22.     2042     (11)     (111)     (111)       23.     2043     (6)     (6)     (6)       24.     2044     (6)     (6)     (6)       27.     2047     (8)     (9)     (100)     (100)       30.     2050     (100)     (100)     (100)     (100)     (100)     (100)       28.     2046     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100)     (100	9.	2029		35,443		38,713
12     2032     2,337     27,100     29,437       13     2033     2,533     21,541     24,074       14     2034     2,588     15,635     18,223       15     2035     1,853     9,381     11,234       16     2036     867     3,127     3,994       17     2037     426     426       18     2038     59     59       19     2039     (194)     (194)       20     2040     (108)     (108)       21     2041     (1)     (11)     (11)       22     2042     (11)     (11)     (11)       23     2043     (6)     (6)     (6)       24     2044     2044       25     2045     2046     2048       29     2049     2049     30     2050       31     2051 and Later     2051 and Later	10.	2030	1,079	33,449		34,528
13. 2033	11.	2031	2,230	31, 107		33,337
14     2034     2,588     15,635     18,223       15     2035     1,853     9,381     11,234       16     2036     867     3,127     3,994       17     2037     426     426     426       18     2038     59     59     59       19     2039     (194)     (194)     (194)       20     2040     (108)     (108)     (108)       21     2041     (1)     (1)     (1)       22     2042     (11)     (11)     (11)       23     2043     (6)     (6)       24     2044     (6)     (6)       25     2045     (6)     (6)       26     2046     (7)     2047       28     2048     (8)     (8)       30     2050     (8)       31     2051 and Later	12.	2032	2,337	27, 100		29,437
15. 2035     1,853     9,381     11,234       16. 2036     867     3,127     3,994       17. 2037     426     426     426       18. 2038     59     59     59       19. 2039     (194)     (194)     (194)       20. 2040     (108)     (108)     (108)       21. 2041     (1)     (11)     (11)       22. 2042     (11)     (11)     (11)       23. 2043     (6)     (6)     (6)       24. 2044     204     25. 2045     26. 2046       26. 2046     2049     2049     2049       30. 2050     30. 2050     31. 2051 and Later	13.	2033	2,533	21,541		24,074
16. 2036     867     3,127     3,994       17. 2037     426     426     426       18. 2038     59     59     59       19. 2039     (194)     (194)     (194)       20. 2040     (108)     (108)     (108)       21. 2041     (1)     (1)     (1)       22. 2042     (11)     (11)     (11)       23. 2043     (6)     (6)     (6)       24. 2044     (6)     (6)     (6)       25. 2045     (7)     2047       28. 2048     (2)     2049       30. 2050     30. 2050     31. 2051 and Later	14.	2034	2,588	15,635		18,223
17. 2037       426       426         18. 2038       59       59         19. 2039       (194)       (194)         20. 2040       (108)       (108)         21. 2041       (1)       (1)         22. 2042       (11)       (11)         23. 2043       (6)       (6)         24. 2044       (6)       (6)         25. 2045       (6)       (6)         26. 2046       (7)       2047         28. 2048       (9)       2049         30. 2050       30. 2050       31. 2051 and Later	15.	2035	1,853	9,381		11,234
18. 2038     59     59       19. 2039     (194)     (194)       20. 2040     (108)     (108)       21. 2041     (1)     (1)       22. 2042     (11)     (11)       23. 2043     (6)     (6)       24. 2044     (6)     (6)       25. 2045     (7)     (1)       26. 2046     (8)     (9)       27. 2047     (1)     (1)       28. 2048     (1)     (1)       29. 2049     (1)     (1)       30. 2050     (1)     (1)       31. 2051 and Later     (1)     (1)	16.	2036	867	3,127		3,994
19. 2039 (194) (194) (194) 20. 2040 (108) (108) 21. 2041 (1) (1) (1) 22. 2042 (11) (11) (11) 23. 2043 (6) (6) 24. 2044 25. 2045 26. 2046 27. 2047 28. 2048 29. 2049 30. 2050 31. 2051 and Later	17.	2037	426			426
19. 2039 (194) (198) (108) (108) 21. 2041 (1) (1) (1) 22. 2042 (11) (11) (11) 23. 2043 (6) (6) 24. 2044 25. 2045 26. 2046 27. 2047 28. 2048 29. 2049 30. 2050 31. 2051 and Later	18.	2038	59			59
21. 2041       (1)       (1)         22. 2042       (11)       (11)         23. 2043       (6)       (6)         24. 2044       (6)       (6)         25. 2045       (7)       (8)         26. 2046       (8)       (9)         27. 2047       (9)       (11)         28. 2048       (9)       (11)         29. 2049       (11)       (11)         30. 2050       (11)       (11)         31. 2051 and Later       (11)       (11)	19.					(194)
21. 2041       (1)       (1)         22. 2042       (11)       (11)         23. 2043       (6)       (6)         24. 2044       (6)       (6)         25. 2045       (7)       (8)         26. 2046       (8)       (9)         27. 2047       (9)       (11)         28. 2048       (9)       (9)         30. 2050       (9)       (9)         31. 2051 and Later       (9)       (9)	20.	2040	(108)			(108)
22. 2042       (11)       (11)         23. 2043       (6)       (6)         24. 2044       (6)       (7)         25. 2045       (7)       (8)         26. 2046       (8)       (9)         27. 2047       (9)       (11)         28. 2048       (9)       (11)         30. 2050       (11)       (11)         31. 2051 and Later       (11)       (11)	21.					(1)
23. 2043       (6)       (6)         24. 2044       (6)       (6)         25. 2045       (7)       (8)         26. 2046       (8)       (8)         27. 2047       (8)       (8)         28. 2048       (9)       (9)         30. 2050       (9)       (9)         31. 2051 and Later       (9)       (9)	22.					(11)
24. 2044       2045         25. 2045       2046         27. 2047       2048         28. 2048       2049         30. 2050       31. 2051 and Later	23.					(6)
26. 2046         27. 2047         28. 2048         29. 2049         30. 2050         31. 2051 and Later	24.					
26.       2046         27.       2047         28.       2048         29.       2049         30.       2050         31.       2051 and Later	25.	2045				
27. 2047       28. 2048         29. 2049       2050         31. 2051 and Later       31. 2051 and Later	26.					
29. 2049	27.					
29. 2049						
30. 2050						
31. 2051 and Later						
			606.772	874.386		1.481.158

# **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. Rese	erve as of December 31, prior year	7, 179,034	13,922	7, 192, 956				7, 192,956
2. Reali	ized capital gains/(losses) net of taxes - General Account	(9,421)		(9,421)				(9,421)
3. Reali	ized capital gains/(losses) net of taxes - Separate Accounts	80,504		80,504				80,504
4. Unre	alized capital gains/(losses) net of deferred taxes - General Account	15,408		15,408	6,528		6,528	21,936
5. Unre	alized capital gains/(losses) net of deferred taxes - Separate Accounts							
6. Capit	tal gains credited/(losses charged) to contract benefits, payments or reserves							
7. Basic	c contribution	1,110,388	3,330	1,113,718				1,113,718
8. Accu	ımulated balances (Lines 1 through 5 - 6 + 7)	8,375,912	17,253	8,393,165	6,528		6,528	8,399,693
9. Maxii	mum reserve	6,041,197	12,121	6,053,319	2,932		2,932	6,056,250
10. Rese	erve objective	3,535,278	7,761	3,543,039	2,932		2,932	3,545,971
11. 20%	of (Line 10 - Line 8)	(968, 127)	(1,898)	(970,025)	(719)		(719)	(970,744)
12. Balar	nce before transfers (Lines 8 + 11)	7,407,785	15,354	7,423,140	5,809		5,809	7,428,948
13. Trans	sfers							
14. Volur	ntary contribution							
15. Adjus	stment down to maximum/up to zero	(1,366,587)	(3,234)	(1,369,821)	(2,877)		(2,877)	(1,372,698)
16. Rese	erve as of December 31, current year (Lines 12 + 13 + 14 + 15)	6,041,198	12,121	6,053,319	2,932		2,932	6,056,251

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

Line NAI			2	3	4		Contribution		e Objective		
					Balance for	5	6	7	8	9	m Reserve 10
			Reclassify		AVR Reserve						
Num- Design		Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber natio	'	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	4,444,612	XXX	XXX	4,444,612	0.0000		0.000		0.0000	
2.1 1	NAIC Designation Category 1.A	55,891,306	XXX	XXX	55,891,306	0.0005	27,946	0.0016	89,426	0.0033	184,441
2.2 1	NAIC Designation Category 1.B	2,422,946	XXX	XXX	2,422,946	0.0005	1,211	0.0016	3,877	0.0033	7,996
2.3 1	NAIC Designation Category 1.C	2,460,767	XXX	XXX	2,460,767	0.0005	1,230	0.0016	3,937	0.0033	8, 121
2.4 1	NAIC Designation Category 1.D	17,982,318	XXX	XXX	17,982,318	0.0005	8,991	0.0016	28,772	0.0033	59,342
2.5 1	NAIC Designation Category 1.E	8,209,654	XXX	XXX	8,209,654	0.0005	4,105	0.0016	13,135	0.0033	27,092
2.6 1	NAIC Designation Category 1.F	17,094,013	XXX	XXX	17,094,013	0.0005	8,547	0.0016	27,350	0.0033	56,410
2.7 1	NAIC Designation Category 1.G	22,542,186	XXX	XXX	22,542,186	0.0005	11,271	0.0016	36,067	0.0033	74,389
2.8	Subtotal NAIC 1 (2.1+2.2+2.3+2.4+2.5+2.6+2.7)	126,603,191	XXX	XXX	126,603,191	XXX	63,302	XXX	202,565	XXX	417,791
3.1 2	NAIC Designation Category 2.A	37,857,949	XXX	XXX	37,857,949	0.0021	79,502	0.0064	242,291	0.0106	401,294
3.2 2	NAIC Designation Category 2.B	30,124,003	XXX	XXX	30,124,003	0.0021	63,260	0.0064	192,794	0.0106	319,314
3.3 2	NAIC Designation Category 2.C	10,515,464	XXX	XXX	10,515,464	0.0021	22,082	0.0064	67,299	0.0106	111,464
3.4	Subtotal NAIC 2 (3.1+3.2+3.3)	78,497,416	XXX	XXX	78,497,416	XXX	164,845	XXX	502,383	XXX	832,073
4.1 3	NAIC Designation Category 3.A	2,949,795	XXX	XXX	2,949,795	0.0099	29,203	0.0263	77,580	0.0376	110,912
4.2 3	NAIC Designation Category 3.B	2,876,812	XXX	XXX	2,876,812	0.0099	28,480	0.0263	75,660	0.0376	108,168
4.3 3	NAIC Designation Category 3.C	688,056	XXX	XXX	688,056	0.0099	6,812	0.0263	18,096	0.0376	25,871
4.4	Subtotal NAIC 3 (4.1+4.2+4.3)	6,514,664	XXX	XXX	6,514,664	XXX	64,495	XXX	171,336	XXX	244,951
5.1 4	NAIC Designation Category 4.A		XXX	XXX		0.0245		0.0572		0.0817	
5.2 4	NAIC Designation Category 4.B	1,230,831	XXX	XXX	1,230,831	0.0245	30 , 155	0.0572	70,404	0.0817	100,559
5.3 4	NAIC Designation Category 4.C		XXX	XXX		0.0245		0.0572		0.0817	
5.4	Subtotal NAIC 4 (5.1+5.2+5.3)	1,230,831	XXX	XXX	1,230,831	XXX	30,155	XXX	70,404	XXX	100,559
6.1 5	NAIC Designation Category 5.A		XXX	XXX		0.0630		0.1128		0.1880	
6.2 5	NAIC Designation Category 5.B	499,620	XXX	XXX	499,620	0.0630	31,476	0.1128	56,357	0.1880	93,929
6.3 5	NAIC Designation Category 5.C		XXX	XXX		0.0630		0.1128		0.1880	
6.4	Subtotal NAIC 5 (6.1+6.2+6.3)	499,620	XXX	XXX	499,620	XXX	31,476	XXX	56,357	XXX	93,929
7. 6	NAIC 6	937,908	XXX	XXX	937,908	0.0000		0.2370	222,284	0.2370	222,284
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)	218,728,242	XXX	XXX	218,728,242	XXX	354,273	XXX	1,225,329	XXX	1,911,586
	PREFERRED STOCKS						·				
10. 1	Highest Quality		XXX	XXX		0.005		0.0016		0.0033	
11. 2	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
12. 3	Medium Quality		XXX	XXX		0.0099		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		0.0000		0.2370		0.2370	
16.	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	

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

				HOLIO		<b>1</b>					
		1	2	3	4	Basic C	Contribution	Reserv	e Objective	Maximu	m Reserve
					Balance for	5	6	7	8	9	10
Line NA			Reclassify		AVR Reserve						
Num- Des		Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber nat		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		0.000		0.0000		0.0000	
19.1 1	NAIC Designation Category 1.A		XXX	XXX		0.005		0.0016		0.0033	
19.2 1	NAIC Designation Category 1.B		XXX	XXX		0.005		0.0016		0.0033	
19.3 1	NAIC Designation Category 1.C		XXX	XXX		0.005		0.0016		0.0033	
19.4 1	NAIC Designation Category 1.D		XXX	XXX		0.005		0.0016		0.0033	
19.5 1	NAIC Designation Category 1.E		XXX	XXX		0.0005		0.0016		0.0033	
19.6	NAIC Designation Category 1.F		XXX	XXX		0.0005		0.0016		0.0033	
19.7 1	NAIC Designation Category 1.G		XXX	XXX		0.0005		0.0016		0.0033	
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	, ·	5,999,418	XXX	XXX	5.999.418	0.0021	12.599	0.0064	38.396	0.0106	63.594
20.2	NAIC Designation Category 2.B	,000,110	XXX	XXX		0.0021		0.0064	, , , , , , , , , , , , , , , , , , , ,	0.0106	
20.3	NAIC Designation Category 2.C		XXX	XXX		0.0021		0.0064		0.0106	
20.4	Subtotal NAIC 2 (20.1+20.2+20.3)	5,999,418	XXX	XXX	5,999,418	XXX	12,599	XXX	38,396	XXX	63,594
21.1	NAIC Designation Category 3.A	0,000,410	XXX	XXX	0,000,410	0.0099	12,000	0.0263	00,000	0.0376	00,004
21.1	NAIC Designation Category 3.8		XXX	XXX		0.0099		0.0263		0.0376	
21.2			XXX	XXX		0.0099		0.0263		0.0376	
21.4	Subtotal NAIC 3 (21.1+21.2+21.3)		XXX	XXX		XXX		XXX		XXX	
22.1 4	NAIC Designation Category 4.A		XXX	XXX		0.0245		0.0572		0.0817	
22.2 4	NAIC Designation Category 4.B		XXX	XXX		0.0245		0.0572		0.0817	
22.3 4	NAIC Designation Category 4.C		XXX	XXX		0.0245		0.0572		0.0817	
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		0.0630		0.1128		0.1880	
23.2	NAIC Designation Category 5.B		XXX	XXX		0.0630		0.1128		0.1880	
23.3	NAIC Designation Category 5.C		XXX	XXX		0.0630		0.1128		0.1880	
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)	5,999,418	XXX	XXX	5,999,418	XXX	12,599	XXX	38,396	XXX	63,594
	DERIVATIVE INSTRUMENTS	2,222,			.,,		, , , , ,		. ,		- /
26.	Exchange Traded		XXX	XXX		0.0005		0.0016		0.0033	
27. 1	Highest Quality		XXX	XXX		0.0005		0.0016		0.0033	
28.	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
29.	Medium Quality		XXX	XXX		0.0099		0.0263		.0.0376	
30. 4	Low Quality		XXX	XXX		0.0245		0.0572		0.0817	
31. 5	Low Quality  Lower Quality		XXX	XXX		0.0630		0.1128		0.1880	
32. 6	In or Near Default		XXX	XXX	İ	0.0000		0.2370		0.2370	
33.	Total Derivative Instruments		XXX	XXX		XXX		XXX		XXX	
		224.727.660		XXX	224.727.660		366.872		1.263.725		1 075 100
34.	Total (Lines 9 + 17 + 25 + 33)	224,121,660	XXX	XXX	224,121,660	XXX	300,8/2	XXX	1,203,725	XXX	1,975,180

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

					I AGE I G		<b>4</b> I					
			1	2	3	4	Basic (	Contribution	Reserve	Objective	Maximu	m 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)
		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	1,671,626		XXX	1,671,626	0.0003	501	0.0007	1,170	0.0011	1,839
41.		Residential Mortgages - All Other	99,522		XXX	99,522	0.0015	149	0.0034	338	0.0046	458
42.		Commercial Mortgages - Insured or Guaranteed			XXX		0.003		0.0007		0.0011	
43.		Commercial Mortgages - All Other - CM1 - Highest Quality			XXX		0.0011		0.0057		0.0074	
44.		Commercial Mortgages - All Other - CM2 - High Quality			XXX		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			XXX		0.006		0.0014		0.0023	
50.		Residential Mortgages - All Other			XXX		0.0029		0.0066		0.0103	
51.		Commercial Mortgages - Insured or Guaranteed			XXX		0.006		0.0014		0.0023	
52.		Commercial Mortgages - All Other			XXX		0.0480		0.0868		0 . 1371	
		In Process of Foreclosure:										
53.		Farm Mortgages			XXX		0.000		0.1942		0.1942	
54.		Residential Mortgages - Insured or Guaranteed			XXX		0.000		0.0046		0.0046	
55.		Residential Mortgages - All Other			XXX		0.000		0.0149		0.0149	
56.		Commercial Mortgages - Insured or Guaranteed			XXX		0.000		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)	1,771,148		XXX	1,771,148	XXX	651	XXX	1,509	XXX	2,297
59.		Schedule DA Mortgages			XXX		0.0034		0.0114		0.0149	
60.		Total Mortgage Loans on Real Estate (Lines 58 + 59)	1,771,148		XXX	1,771,148	XXX	651	XXX	1,509	XXX	2,297

# ASSET VALUATION RESERVE BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS EQUITY AND OTHER INVESTED ASSET COMPONENT

			LQUIII			TED ASSE						
			1	2	3	4	Basic C	ontribution	Reserve	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)
		COMMON STOCK										
1.		Unaffiliated - Public	12,060	XXX	XXX	12,060	0.0000		0.2431 (a)	2,932	0.2431 (a)	2,932
2.		Unaffiliated - Private		XXX	XXX		0.0000		0 . 1945		0 . 1945	
3.		Federal Home Loan Bank		XXX	XXX		0.0000		0.0061		0.0097	
4.		Affiliated - Life with AVR		XXX	XXX		0.000		0.0000		0.000	
		Affiliated - Investment Subsidiary:										
5.		Fixed Income - Exempt Obligations					XXX		XXX		XXX	
6.		Fixed Income - Highest Quality					XXX		XXX		XXX	
7.		Fixed Income - High Quality					XXX		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					0.000		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)	12,060			12,060	XXX		XXX	2,932	XXX	2,932
18.		REAL ESTATE Home Office Property (General Account only)					0.0000		0.0912		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		0.0000	
23.		Highest Quality		XXX	XXX		0.0005		0.0016		0.0033	
24.	2	High Quality		XXX	XXX		0.0021		0.0064		0.0106	
25.	3	Medium Quality		XXX	XXX		0.0099		0.0263		0.0376	
26.	4	Low Quality		XXX	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

				AND OTH		DIED ASS						
			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	In or Near Default		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		2007	2007		2007		2007		2007	
		through 36) INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS		XXX	XXX		XXX		XXX		XXX	
		OF MORTGAGE LOANS										
		In Good Standing Affiliated:			1004		0 0044		0.0057		0.0074	
38.		Mortgages - CM1 - Highest Quality			XXX		0.0011				0.0074	
39.		Mortgages - CM2 - High Quality			XXX		0.0040 0.0069		0.0114 0.0200		0.0149 0.0257	
40.		Mortgages - CM3 - Medium Quality			XXX				0.0343			
41.		Mortgages - CM4 - Low Medium Quality			XXX		0.0120				0.0428	
42.		Mortgages - CM5 - Low Quality			XXX		0.0183		0.0486		0.0628	
43.		Residential Mortgages - Insured or Guaranteed			XXX		0.0003		0.0007		0.0011 0.0046	
44.		Residential Mortgages - All Other		XXX	XXX		0.0015		0.0034 0.0007			
45.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0003		0.007		0.0011	
40		Overdue, Not in Process Affiliated:			xxx		0.0480		0.0868		0.1371	
46. 47.		Farm Mortgages					0.0006		0.0014		0.0023	
					XXX		0.0029		0.0066		0.0103	
48.		Residential Mortgages - All Other			XXX		0.0006		0.0014		0.0023	
49. 50.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0480		0.0868		0.1371	
50.					XXX		0.0400		0.0000			
E4		In Process of Foreclosure Affiliated: Farm Mortgages			xxx		0.0000		0.1942		0.1942	
51. 52.		Residential Mortgages - Insured or Guaranteed			XXX		0.0000		0.1942		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	
5 <del>4</del> .		Commercial Mortgages - Ill 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 Filliamy Seriol  Unaffiliated - In Good Standing All Other			XXX		0.0069		0.0200		0.0257	
61.		Unaffiliated - Overdue. Not in Process			XXX		0.0480		0.0868		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			
b4.	1	Frotal with Mortgage Loan Characteristics (Lines 56 + 63)			XXX		XXX		XXX		XXX	

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

			1	2	3	4		Contribution	Reserve	e Objective	Maximur	n Reserve
Line Num-			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)
		INVESTMENTS WITH THE UNDERLYING CHARACTERISTICS										
		OF COMMON STOCK										
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.		Manual)		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					0.000		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	
		ALL OTHER INVESTMENTS										
81.		NAIC 1 Working Capital Finance Investments		XXX			0.0000		0.0042		0.0042	
82.		NAIC 2 Working Capital Finance Investments		XXX			0.0000		0.0137		0.0137	
83.		Other Invested Assets - Schedule BA		XXX			0.0000		0.1580		0.1580	
84.		Other Short-Term Invested Assets - Schedule DA		XXX			0.0000		0.1580		0.1580	
85.		Total All Other (Sum of Lines 81, 82, 83 and 84)		XXX			XXX		XXX		XXX	
86.		Total Other Invested Assets - Schedules BA & DA (Sum of Lines 29, 37, 64, 70, 74, 80 and 85)					XXX		XXX		xxx	

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

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

<sup>(</sup>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	2	3	4	5	6	7
NAIC						
Company	ID	Effective		Domiciliary		
Code	Number	Date	Name of Company	Jurisdiction	Paid Losses	Unpaid Losses
65935	04-1590850		MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA		1,030,615
65935	04-1590850		MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA		6,210,180
		y - U.S. Affiliate			3,314,975	7,240,795
0399999. T	otal Life and A	Annuity - U.S. A	Affiliates		3,314,975	7,240,795
0699999. T	otal Life and A	Annuity - Non-L	J.S. Affiliates			
		Annuity - Affiliat			3,314,975	7,240,795
	13-2572994		GENERAL RE LIFE CORPORATION (CO81)			227,562
65676	35-0472300	02/08/1999	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN81)	IN	70,091	325,430
66346	58-0828824	02/08/1999	MUNICH AMERICAN REASSURANCE COMPANY (MUB1) MUNICH AMERICAN REASSURANCE COMPANY (MUB2)	GA	116,678	516,013
66346	58-0828824	01/01/1999	MUNICH AMERICAN REASSURANCE COMPANY (MU82)	GA	59,830	345,013
93572	43-1235868	01/01/1999	RGA REINSURANCE COMPANY (AZ82)	MO	12,533	410,612
93572	43-1235868	02/08/1999	RGA REINSURANCE COMPANY (GA81)	MO	40,114	325,430
		1	SWISS RE LIFE & HEALTH AMERICA INC. (SR16)	MU		3,773,824
		y - U.S. Non-A			4,400,239	5,923,884
		Annuity - Non-A	tfiliates		4,400,239	5,923,884
	otal Life and A	,			7,715,214	13,164,679
		and Health - U				
			on-U.S. Affiliates			
		and Health - At				
2199999. T	otal Accident	and Health - N	on-Affiliates			
2299999. T	otal Accident	and Health				
2399999. T	otal U.S. (Sun	n of 0399999, (	0899999, 1499999 and 1999999)		7,715,214	13, 164, 679
2499999. T	otal Non-U.S.	(Sum of 06999	999, 0999999, 1799999 and 2099999)			
9999999 To	otals - Life, An	nuity and Accid	dent and Health		7,715,214	13, 164, 679

# **SCHEDULE S - PART 3 - SECTION 1**

		Reinsu	rance Ceded Life Insurance, Annuities, Deposit Funds and	d Other Lia	abilities Without	Life or Disabi	lity Contingencies.	and Related Ben	efits Listed by R	Reinsuring Compa	iny as of Decem	ber 31, Current	Year	
1	2	3	4	5	6	7	8	Reserve Cre		11	Outstanding S		14	15
	_	Ŭ	'	Domi-				9	10	• • •	12	13	• • •	10
NAIC				ciliary	Type of	Type of		9	10		12	10	Modified	Funds Withheld
	ID	Cffo otivo					Amount in Force							
Company		Effective	Name of Comment	Juris-	Reinsurance	Business	Amount in Force	O	Deine Vann	D	O	Delas Vasa	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
65935	04-1590850		MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA	YRT/I	OL	301,481,117	4,553,030	4,569,858	5,294,341				
65935	04-1590850		MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	MA	0TH/I	OL				110,736				
0299999.	General Acco	ount - Authori	zed U.S. Affiliates - Other				301,481,117	4,553,030	4,569,858	5,405,077				
0399999.	<b>Total Genera</b>	I Account - A	uthorized U.S. Affiliates				301,481,117	4,553,030	4,569,858	5,405,077				
0699999.	Total Genera	I Account - A	uthorized Non-U.S. Affiliates											
0799999.	Total Genera	I Account - A	uthorized Affiliates				301,481,117	4,553,030	4,569,858	5,405,077				
80659	82-4533188	03/01/1996	CANADA LIFE ASSURANCE COMPANY (CR57)	MI	YRT/I	OL.	624,602	2,730	2,761	2,463				
86258	13-2572994	.02/08/1999	GENERAL RE LIFE CORPORATION (CO81)	. CT	YRT/I	0L	201,789,627	1,984,339	1,965,697	1,257,478				
65676	35-0472300	01/05/1983	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN16)	IN	YRT/I	0L	2,665,558	11,648	11,784	11,434				
65676	35-0472300	02/08/1999	LINCOLN NATIONAL LIFE INSURANCE COMPANY (LN81)	. IN	YRT/I	OL.		3.012.213	2,983,894	1,883,643				
66346	58-0828824	05/01/1994	MUNICH AMERICAN REASSURANCE COMPANY (CA48)	GA	YRT/1	OL.	178,890	782	791	644				
66346	58-0828824	02/08/1999	MUNICH AMERICAN REASSURANCE COMPANY (MU81)	GA	YRT/I	OL.		5.014.336	4,967,308	2,903,577				
66346	58-0828824		MUNICH AMERICAN REASSURANCE COMPANY (MUSE)	GA	YRT/I	OL.	135,313,796	1,485,346	1,638,321	901,651				
93572	43-1235868		RGA REINSURANCE COMPANY (AZ51)	MO	YRT/I	OL.		3,046	3,081	.2,459				
93572	43-1235868		RGA REINSURANCE COMPANY (AZ82)	MO.	YRT/I	OL.	162,601,479	1,784,640	1,968,328	1,380,983				
93572	43-1235868		RGA REINSURANCE COMPANY (GA81)	MO	YRT/I	OL.	306,305,799	3,012,213	2,983,894	1,852,355				
82627	06-0839705	12/31/2016	SWISS RE LIFE & HEALTH AMERICA INC. (SR16V)	MO	MCO/I	OL.	2,028,408,946		2,000,004	12,032,175	24,399,563	_26,008,991	127,043,147	
82627		03/01/1006	SWISS RE LIFE & HEALTH AMERICA INC. (SR59)	IWO	YRT/I	0L	3,481,084	15,212	15,390	16,858	24,000,000	20,000,331	121,040,141	
			zed U.S. Non-Affiliates	.   IVIO		UL	3,658,278,098	16.326.505	16.541.249	22,245,720	24,399,563	26.008.991	127.043.147	
								, . ,	, , , ,			, ,	, -,	
			uthorized Non-Affiliates				3,658,278,098	16,326,505	16,541,249	22,245,720	24,399,563	26,008,991	127,043,147	
	Total Genera						3,959,759,215	20,879,535	21, 111, 107	27,650,797	24,399,563	26,008,991	127,043,147	
			nauthorized U.S. Affiliates											
			nauthorized Non-U.S. Affiliates											
1899999.	<b>Total Genera</b>	I Account - U	nauthorized Affiliates											
2199999.	<b>Total Genera</b>	I Account - U	nauthorized Non-Affiliates											
2299999.	Total Genera	I Account Un	authorized											
2599999.	Total Genera	I Account - C	ertified U.S. Affiliates											
			ertified Non-U.S. Affiliates											
			ertified Affiliates											
			ertified Non-Affiliates											
	Total Genera													
			eciprocal Jurisdiction U.S. Affiliates											
			eciprocal Jurisdiction Non-U.S. Affiliates											
			eciprocal Jurisdiction Affiliates											
			eciprocal Jurisdiction Non-Affiliates											
4499999.	<b>Total Genera</b>	I Account Re	ciprocal Jurisdiction											
			thorized, Unauthorized, Reciprocal Jurisdiction and Certified	-			3,959,759,215	20,879,535	21, 111, 107	27,650,797	24,399,563	26,008,991	127,043,147	
			MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY		MCO/G.	OL.	2,213,004,635			310,873			1.194.059.693	
			orized U.S. Affiliates - Other				2,213,004,635			310,873			1,194,059,693	
			Authorized U.S. Affiliates				2,213,004,635			310.873			1,194,059,693	
			Authorized Non-U.S. Affiliates				2,210,007,000			010,070			1, 10-7, 000, 000	
							2,213,004,635			310.873			1.194.059.693	
			Authorized Affiliates	Luo	1100 (1	21	2,213,004,635			310,8/3			, . , ,	
			SWISS RE LIFE & HEALTH AMERICA INC. (SR16V)	MO	MCO/I	OL							964,714,878	
			orized U.S. Non-Affiliates				1						964,714,878	
			Authorized Non-Affiliates				1						964,714,878	
	Total Separa						2,213,004,635			310,873			2,158,774,571	
			Unauthorized U.S. Affiliates	<u> </u>										
			Unauthorized Non-U.S. Affiliates											
			Unauthorized Affiliates											
			Unauthorized Non-Affiliates				1							
	Total Separa													
			Certified U.S. Affiliates				+							1
							+							
7 399999.	ı otar separa	LE ACCOUNTS -	Certified Non-U.S. Affiliates											]

## **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
7499999.	Total Separat	e Accounts -	Certified Affiliates											
7799999.	Total Separat	e Accounts -	Certified Non-Affiliates											
7899999.	Total Separat	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 Separat	e Accounts -	Reciprocal Jurisdiction Affiliates											
8899999.	Total Separat	e Accounts -	Reciprocal Jurisdiction Non-Affiliates											
8999999.	Total Separat	e Accounts F	Reciprocal Jurisdiction											
9099999.	Total Separat	e Accounts A	Authorized, Unauthorized, Reciprocal Jurisdiction and Certified				2,213,004,635			310,873			2,158,774,571	
9199999.	Total U.S. (St	ım of 039999	99, 0899999, 1499999, 1999999, 2599999, 3099999, 3699999, 4199	999, 48999	999, 5399999, 599	9999, 6499999,								
	7099999, 75	99999, 8199	999 and 8699999)				6,172,763,850	20,879,535	21, 111, 107	27,961,670	24,399,563	26,008,991	2,285,817,718	
9299999.			899999, 0999999, 1799999, 2099999, 2899999, 3199999, 3999999, 4	4299999, 5	5199999, <del>549</del> 9999	, 6299999,								
		99999, 7699	999, 8499999 and 8799999)											
9999999 -	- Totals						6,172,763,850	20,879,535	21, 111, 107	27,961,670	24,399,563	26,008,991	2,285,817,718	

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 (\$000	Omitted) 2	3	4	5
		2021	2020	2019	2018	2017
	A. OPERATIONS ITEMS					
1.	Premiums and annuity considerations for life and accident and health contracts	27,962	29,056	29,332	28,813	35,634
2.	Commissions and reinsurance expense allowances	10,397	10,227	10,093	10,345	9,250
3.	Contract claims	50,234	47,279	37,361	37,107	42,255
4.	Surrender benefits and withdrawals for life contracts	43, 102	36,102	45,341	44 , 165	43,051
5.	Dividends to policyholders and refunds to members					
6.	Reserve adjustments on reinsurance ceded	(78,830)	(70,013)	(72,165)	(71,779)	(70,296)
7.	Increase in aggregate reserve for life and accident and health contracts	(232)	18	(345)	(1,021)	(625)
	B. BALANCE SHEET ITEMS					
8.	Premiums and annuity considerations for life and accident and health contracts deferred and uncollected	1,171	(603)	(831)	(437)	2,549
9.	Aggregate reserves for life and accident and health contracts	20,880	21,111	21,093	21,438	22,458
10.	Liability for deposit-type contracts					
11.	Contract claims unpaid	13,165	12,447	4,565	7,081	14,323
12.	Amounts recoverable on reinsurance	7,715	7,479	1,679	4,130	4,375
13.	Experience rating refunds due or unpaid	2,633	2,943	3,718	3,248	420
14.	Policyholders' dividends and refunds to members (not included in Line 10)					
15.	Commissions and reinsurance expense allowances due	26,673	28,453	12,590	8,312	14,776
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

		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)	432,281,526		432,281,526
2.	Reinsurance (Line 16)	48,933,552	(48,933,552)	
3.	Premiums and considerations (Line 15)	(3,803,929)	1, 171, 411	(2,632,518
4.	Net credit for ceded reinsurance	xxx	65,081,185	65,081,185
5.	All other admitted assets (balance)	10,604,600		10,604,600
6.	Total assets excluding Separate Accounts (Line 26)	488,015,749	17,319,043	505,334,792
7.	Separate Account assets (Line 27)	4,974,831,570		4,974,831,570
8.	Total assets (Line 28)	5,462,847,319	17,319,043	5,480,166,362
	LIABILITIES, CAPITAL AND SURPLUS (Page 3)			
9.	Contract reserves (Lines 1 and 2)	143,285,875	20,879,534	164, 165, 409
10.	Liability for deposit-type contracts (Line 3)	15,980,530		15,980,530
11.	Claim reserves (Line 4)	9,928,290	13, 164, 679	23,092,969
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)	28,043,510	(16,781,392)	11,262,118
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)	25,347,954	56,222	25,404,176
20.	Total liabilities excluding Separate Accounts (Line 26)	222,586,158	17,319,043	239,905,202
21.	Separate Account liabilities (Line 27)	4,974,831,570		4,974,831,570
22.	Total liabilities (Line 28)	5,197,417,728	17,319,043	5,214,736,772
23.	Capital & surplus (Line 38)	265,429,591	xxx	265,429,591
24.	Total liabilities, capital & surplus (Line 39)	5,462,847,319	17,319,043	5,480,166,362
	NET CREDIT FOR CEDED REINSURANCE			
25.	Contract reserves	20,879,534		
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			
	Premiums and considerations			
34.				
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			
39.	Other ceded reinsurance payables/offsets			
40.	Total ceded reinsurance payable/offsets			
41.	Total net credit for ceded reinsurance	65,081,185		

## SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS (b)

Allocated by States and Territories

			Allocated by Sta		Direct Busin	ess Only		
		1	Life Co	ntracts	4	5	6	7
			2	3				
					Accident and Health Insurance Premiums,		Total	
		Active			Including Policy,		Total Columns	
		Status	Life Insurance	Annuity	Membership	Other	2 through 5	Deposit-Type
	States, Etc.	(a)	Premiums	Considerations	and Other Fees	Considerations	(b)	Contracts
1.	AlabamaAL	<u>L</u>	161,928				161,928	
2.	Alaska AK	<u>L</u>	7, 146				7, 146	
3.	Arizona	<u>Ļ</u>	728,179				728 , 179	
4.	Arkansas	L	85,846				85,846	
5.	California	<u>Ļ</u>	3,298,144				3,298,144	
6.	Colorado	<u>L</u>	548,058				548,058	
7.	Connecticut CT	<u>L</u>	706,840				706,840	
8. 9.	Delaware	L	101,308				101,308	
_	Florida FI	L	382,273				382,273	
11.	Georgia	L	1,751,542 545,915				1,751,542	
11.	Hawaii HI	L					545,915	
13.	ID IdahoID	L	69,792				167,067 69,792	
	Illinois II	L	992,740				992,740	
	Indiana IN	∟	374,037				374,037	
16.	lowa IA	L	393,502	1.800			395,302	
17.	Kansas KS		228,797	1,000			228,797	
18.	Kentucky KY	L	199,353				199,353	
	Louisiana LA		282,379				282,379	
20.	Maine ME	L	141.077				141,077	
21.	Maryland MD	L	783,318				783,318	
	Massachusetts MA	l	856,556				856,556	
	Michigan MI	 	1,673,275	6.000			1,679,275	
24.	Minnesota MN	<u> </u>	370,712				370,712	
25.	Mississippi MS	L.	193,724				193,724	
	Missouri MO	<u>_</u>	425,208				425,208	
-	Montana MT	<u> </u>	181, 163				181, 163	
	Nebraska NE	<u> </u>	297,603	7,000			304,603	
29.	Nevada NV	<u> </u>	251,669	,			251,669	
30.	New Hampshire NH	L	124,507				124,507	
31.	New Jersey NJ	LL	1,236,640				1,236,640	
32.	New Mexico NM	LL	83,857				83,857	
33.	New York NY	N	124,976				124,976	
34.	North CarolinaNC	L	1,081,405				1,081,405	
35.	North DakotaND	L	6,752				6,752	
36.	Ohio OH	L	1,029,113				1,029,113	
37.	Oklahoma OK	L	692,479				692,479	
38.	Oregon OR	L	292,338				292,338	
39.	Pennsylvania PA	L	1,585,548				1,585,548	
40.	Rhode IslandRI	L	185,362				185,362	
41.	South Carolina	L	548 , 188				548 , 188	
42.	South Dakota	L	24,770				24,770	
43.	Tennessee TN	L	501,235				501,235	
	TexasTX	L	2, 154,839				2, 154, 839	
	Utah UT	L	321,668				321,668	
	Vermont VT	L	70,697	1,200			71,897	
	VirginiaVA	L	1,645,794				1,645,794	
	Washington WA	L	540,791				540,791	
	West Virginia WV	L	148,524				148,524	
	Wisconsin WI	<u>L</u>	279,486				279,486	
	WyomingWY	L	21, 142				21, 142	
	American Samoa AS	N						
	Guam	N						
	Puerto Rico PR	N						
	U.S. Virgin Islands	N.						
	Northern Mariana IslandsMP	N	2 220				0.000	
	Canada	N	2,820				2,820	
58. 59.	Aggregate Other Alien	XXX	52,688	40.000			52,688	
59. 90.	Reporting entity contributions for employee benefits	XXX	28,954,770	16,000			28,970,770	
90.	plans	XXX						
91.	Dividends or refunds applied to purchase paid-up							
	additions and annuities	XXX					ļ	
92.	Dividends or refunds applied to shorten endowment	1000					[	
0.3	or premium paying period	XXX						
93.	Premium or annuity considerations waived under disability or other contract provisions	XXX	386,287					
94.	Aggregate or other amounts not allocable by State	XXX	250,207				230,207	
95.	Totals (Direct Business)	XXX	29,341,057	16,000			29,357,057	
96.	Plus reinsurance assumed	XXX	20,011,007					
97	Totals (All Business)	XXX	29,341,057	16,000			29,357,057	
98.	Less reinsurance ceded	XXX	26,187,005				26, 187,005	
99.	Totals (All Business) less Reinsurance Ceded	XXX	3,154,052	16,000	(c)		3,170,052	
	DETAILS OF WRITE-INS							
	ZZZ Other Alien	XXX	52,688				52,688	
58002.		XXX					ļ <b> </b>	
58003.		XXX					ļ	
58998.	Summary of remaining write-ins for Line 58 from	-					[	
F0000	overflow page	XXX						
58999.	Totals (Lines 58001 through 58003 plus	XXX	52,688				52.688	
9401.	58998)(Line 58 above)		32,008				32,008	
9401.		XXX					<u> </u>	
9402.		XXX			+		†	
	Summary of remaining write-ins for Line 94 from	٨٨٨			+		<u> </u>	
3 100.	overflow page	XXX						
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line							
	94 above)	XXX						
(a) Active	Status Counts:			50	R - Registered - Non			

<sup>(</sup>a) Active Status Counts:L - Licensed or Chartered - Licensed insurance carrier or domiciled RRG... R - Registered - Non-domiciled RRGs. .. 50

#### **SCHEDULE T - PART 2**

#### **INTERSTATE COMPACT - EXHIBIT OF PREMIUMS WRITTEN**

Allocated by States and Territories

Direct Business Only

				states and Territ	Direct Bus	iness Only		
			1	2	3 Disability	4	5	6
			Life	Annuities	Disability Income	Long-Term Care		1
	Otataa Eta		(Group and	(Group and	(Group and	(Group and	Deposit-Type	Totalo
	States, Etc.		Individual)	Individual)	Individual)	Individual)	Contracts	Totals
1.		AL	161,928					161,928
2.	Alaska		7, 146					7 , 146
3.	Arizona	ΑZ	728 , 179					728 , 179
4.	Arkansas	AR	85,846					85,846
5.	California	CA	3,298,144					3,298,144
6.	Colorado	СО	548,058					548,058
7.	Connecticut	СТ	706,840					706,840
8.	Delaware	DE	101,308					101,308
9.	District of Columbia		382,273					382,273
10.	Florida		1,751,542					1,751,542
	Georgia		545,915					545,915
11.								167,067
12.	Hawaii		,					*
13.	ldaho		69,792					69,792
14.	Illinois		992,740					992,740
15.	Indiana		374,037					374,037
16.	lowa		393,502	1,800				395,302
17.	Kansas	KS	228,797					228,797
18.	Kentucky	KY	199,353					199,353
19.	Louisiana	LA	282,379					282,379
20.	Maine	ME	141,077					141,077
21.	Maryland	MD	783,318					783,318
22.	Massachusetts	MA	856,556					856,556
23.	Michigan	МІ	1,673,275	6.000				1,679,275
24.	Minnesota		370,712	,				370,712
25.	Mississippi		193,724					193,724
26.	Missouri		425,208					425,208
27.	Montana		181,163					181, 163
	Nebraska		297,603	7,000				304,603
28.				,				
29.		NV	251,669					251,669
30.	New Hampshire		124,507					124,507
31.	· · · · · · · · · · · · · · · · · · ·	NJ	1,236,640					1,236,640
32.	New Mexico		83,857					83,857
33.	New York		124,976					124,976
34.	North Carolina	NC	1,081,405					1,081,405
35.	North Dakota	ND	6,752					6,752
36.	Ohio	ОН	1,029,113					1,029,113
37.	Oklahoma	ОК	692,479					692,479
38.	Oregon	OR	292,338					292,338
39.	Pennsylvania	PA	1,585,548					1,585,548
40.	Rhode Island	RI	185,362					185,362
41.	South Carolina	sc	548 , 188					548 , 188
42.	South Dakota		24,770					24,770
43.	Tennessee		501,235					501,235
43. 44.	Texas		2, 154,839					2,154,839
44. 45.	Utah		2, 134,669					321,668
	Vermont		70,697	1.200				71,897
46.			1,645,794	,				1,645,794
47.	Virginia							, ,
48.	Washington							540,791
49.	West Virginia		148,524					148,524
50.		WI	279,486					279,486
51.	Wyoming		21,142					21,142
52.	American Samoa	AS						
53.	Guam	GU						
54.	Puerto Rico	PR						
55.	U.S. Virgin Islands	VI						
56.	Northern Mariana Islands	MP						
57.	Canada	CAN	2,820					2,820
58.	Aggregate Other Alien		52,688					52,688
59.	Total		28,954,770	16,000				28,970,770
JJ.	. 5331		20,007,110	10,000			ı	

PART 1 – ORGANIZATIONAL CHART

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

	Federal Tax ID	NAIC Co Code	<b>State of Domicile</b>
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 Mezzanine Investor III, LLC	06-1041383		Delaware
CML Special Situations Investor 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 I I LLC	None		Delaware
MM Global Capabilities I II 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
MassMutual Private Equity Funds LLC	04-1590850		Delaware
MassMutual Private Equity Funds Subsidiary LLC	04-1590850		
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
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
JFAM GP LLC	None		Delaware

	Federal Tax ID	NAIC Co Code	<b>State of Domicile</b>
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
Jefferies Senior Lending LLC	None		Delaware
JFIN Revolver Holdings LLC	None		Delaware
JFIN Revolver Holdings II LLC	None		Delaware
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 High Yield Investments 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 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
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
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

	Federal Tax ID	NAIC Co Code	State of Domicile
Glidepath Holdings Inc.	86-2294635		Delaware
Great American Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717	****	Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
Great American Advisors, LLC	31-1395344		Ohio
Manhattan National Holding LLC	26-3260520		Ohio
Manhattan National Life Insurance Company	45-0252531	67083	Ohio
MassMutual Mortgage Lending LLC	None		Delaware
MM Copper Hill Road LLC	04-1590850		Delaware
MM Direct Private Investments Holding LLC	None		Delaware
MM Direct Private Investments UK Limited	None		United Kingdom
MM Investment Holding	None		Cayman Islands
MassMutual Asset Finance LLC	26-0073611		Delaware
MMAF Equipment Finance LLC 2013-A	90-1005837		Delaware
MMAF Equipment Finance LLC 2014-A	36-4785301		Delaware
MMAF Equipment Finance LLC 2015-A	38-3969560		Delaware
MMAF Equipment Finance LLC 2016-A	32-0489588		Delaware
MMAF Equipment Finance LLC 2017-A	35-2590691		Delaware
MMAF Equipment Finance LLC 2017-B	32-0546197		Delaware
MMAF Equipment Finance LLC 2018-A	82-5335801		Delaware
MMAF Equipment Finance LLC 2019-A	83-3722640		Delaware
MMAF Equipment Finance LLC 2019-B	None		Delaware
MMAF Equipment Finance LLC 2021-A	None		Delaware
Rozier LLC MML Management Corporation	None 04-2443240		Delaware Massachusetts
MassMutual International Holding MSC, Inc.	04-2443240		Massachusetts
MassMutual Holding MSC, Inc.	04-3348444		Massachusetts
MML CM LLC	None		Delaware
Blueprint Income LLC	None		New York
Flourish Digital Assets LLC	None		Delaware
Flourish Financial LLC	None		Delaware
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

	Federal Tax ID	NAIC Co Code	State of Domicile
Sleeper Street LLC	None		Delaware
Haven Life Insurance Agency, LLC	46-2252944		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MassMutual Ventures Holding LLC	None		Delaware
Athens Fund Management LLC	None		Delaware
Crane Venture Partners LLP	None		United Kingdom
MassMutual Ventures Management LLC	None		Delaware
MassMutual Ventures SEA Management Private Limited	None		Singapore
MassMutual Ventures Southeast Asia I LLC	None		Delaware
MassMutual Ventures Southeast Asia II LLC	None		Delaware
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
MassMutual Ventures US IV LLC	None		Delaware
Open Alternatives LLC	None		Delaware
MM Catalyst Fund LLC	None		Delaware
MM Rothesay Holdco US LLC	04-1590850		Delaware
Rothesay Limited	None		United Kingdom
Rothesay Life Plc	None		United Kingdom
Rothesay MA No.1 Limited	None		United Kingdom
Rothesay MA No.2 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 US 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

	Federal Tax ID	NAIC Co Code	State of Domicile
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	98-0457456		Australia
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 Securities LLC	04-3238351		Delaware
Barings Guernsey Limited	98-0437588		Guernsey
Barings Europe Limited	None		United Kingdom
Barings Asset Management Spain SL	None		Spain
Barings Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Netherlands B.V.	None		Netherlands
Barings Real Estate UK Holdings Limited	None		Delaware
Barings Real Estate Advisers (Continental Europe) Limited	98-0654401		United Kingdom
Barings Real Estate GmbH	98-1194368		Germany
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom
Barings Global Advisors Limited	98-1012393		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring International Investment Management Holdings	98-0457587		United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576		United Kingdom
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland
Baring Asset Management Switzerland Sàrl	None 98-0497550		Switzerland
Baring France SAS Baring Fund Managers Limited	98-0497530 98-0457586		France United Kingdom
BCGSS 2 GP LLP	98-0437380 None		United Kingdom United Kingdom
	None 98-0457578		
Baring Investment Services Limited Barings Core Fund Feeder I GP S.à.r.l.	98-043/3/8 None		United Kingdom Luxembourg
Barings Core Fund Feeder FOF S.a.r.l.  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 Gree Gropean Core Property Fund GP Så.r.l	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à r.l	None		Luxembourg
01 11 7(0) 01 5.41.1	None		Eutemourg

	Federal Tax ID	NAIC Co Code	<b>State of Domicile</b>
PREIF Holdings Limited Partnership	None		United Kingdom
Barings (U.K.) Limited	98-0432153		United Kingdom
BMC Holdings DE LLC	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		California
CRA Aircraft Holding LLC	81-4258759		Delaware
Aland Royalty Holdings LP	None		Delaware
GASL Holdings LLC	None		Delaware
Intermodal Holding II LLC	46-2344300		Delaware
Novation Companies, Inc.	None		Maryland
Red Lake Ventures, LLC	46-5460309		Delaware
Remington L & W Holdings LLC	81-4065378		Connecticut
Tamiami Citrus, LLC	None		Delaware
Teaktree Acquisition, LLC	None		Delaware
Techquity, LP	None		Delaware
Validus Holding Company LLC	46-0687392		Delaware
Validus Pharmaceuticals LLC	None		Delaware
VGS Acquisition Holding, LLC	None		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 Hotel Opportunity Venture I GP, LLC	None		Delaware
Barings Investment Series LLC	None		Delaware
Barings Emerging Generation Fund GP, LLC	None		Delaware
Barings ERS PE Emerging Manager III GP, LLC	None		Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850		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 Emerging Generation Fund LP	84-3784245		Delaware
Barings Global Energy Infrastructure Advisors, LLC	None		Delaware
Barings Global Real Assets Fund GP, LLC	None		Delaware
Barings GPSF	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund Management II, LLC	None		Delaware

	Federal Tax ID NAIC Co	Code State of	f Domicile
	04.5062000	D 1	
Barings Small Business Fund LLC	84-5063008	Delawar	
Benton Street Advisors, Inc.	98-0536233	Cayman	
BHOVI Incentive LLC	None	Delawar	
BIG Real Estate Fund GP LLC	None	Delawar	
BRECS VII GP LLC	None	Delawar	
BREDIF GP LLC	None	Delawar	
CHY Venture GP LLC	None	Delawar	
CREF X GP LLC	None	Delawar	
Great Lakes III GP, LLC	04-1590850	Delawar	
Lake Jackson LLC	None	Delawar	
Loan Strategies Management LLC	04-1590850	Delawar	
Mezzco III LLC	41-2280126	Delawar	
Mezzco IV LLC	80-0920285	Delawar	
Mezzco Australia II LLC	None	Delawar	
RECSA-NY GP LLC	None	Delawar	e
SBNP SIA II LLC	None	Delawar	e
SBNP SIA III LLC	None	Delawar	e
Somerset Special Opportunities Management LLC	04-1590850	Delawar	e
Amherst Long Term Holdings, LLC	None	Delawar	e
MassMutual International LLC	04-3313782	Delawar	e
MassMutual Solutions LLC	None	Delawar	e
Haven Technologies Asia Limited	None	Hong Ko	ong
Yunfeng Financial Group Limited	None	Hong Ko	
MassMutual Asia Limited (SPV)	None	Hong Ko	ong
MML Mezzanine Investor II, LLC	04-1590850	Delawar	
MML Mezzanine Investor III, LLC	04-1590850	Delawar	e
MassMutual External Benefits Group LLC	27-3576835	Delawar	e
Other Affiliates & Funds:			
100 w. 3 <sup>rd</sup> Street LLC	04-1590850	Delawar	Δ
300 South Tryon Hotel LLC	82-2432216	Delawar	
2160 Grand Manager LLC	04-1590850	Delawar	
300 South Tryon LLC	04-1590850	Delawar	
Almack Mezzanine Fund II Unleveraged LP	None	United K	
Barings Affordable Housing Mortgage Fund I LLC	82-3468147	Delawar	
Barings Affordable Housing Mortgage Fund I LLC Barings Affordable Housing Mortgage Fund II LLC	82-3408147 61-1902329	Delawar	
	85-3036663	Delawar	
Barings Affordable Housing Mortgage Fund III LLC	85-3036663 36-4868350		
Barings Asset-Based Income Fund (US) LP		Delawar Ireland	t e e e e e e e e e e e e e e e e e e e
Barings Emerging Markets Corporate Bond Fund	None		
Barings European Real Estate Debt Income Fund	None	Luxemb	
Babson Capital Global Special Situation Credit Fund 2	98-1206017	Delawar	e

	Federal Tax ID	NAIC Co Code	State of Domicile
Babson Capital Loan Strategies Fund, L.P.	37-1506417		Delaware
Barings US High Yield Bond Fund	None		Ireland
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-I	None		Cayman Islands
Babson CLO Ltd. 2014-I	None		Cayman Islands
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
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
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 Global Em. Markets Equity Fund	82-5330194		North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands
Barings Global Inv. Grade Strat Fund	None		Ireland
Barings Global Private Loan Fund	None		Luxembourg
Barings Global Real Assets Fund LP	82-3867745		Delaware
Barings Global Special Situations Credit Fund 3	None		Ireland
Barings Global Special Situations Credit 4 Delaware	85-1465973		Delaware
Barings Global Special Situations Credit 4 LUX	98-1570693		Luxembourg
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

	Federal Tax ID NAIC Co Code	State of Domicile
Barings Middle Market CLO 2019-I	None	Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604	Cayman Islands
Barings North American Private Loan Fund LP	38-4010344	Delaware
Barings RE Credit Strategies VII LP	98-1332384	Delaware
Barings CLO Investment Partners LP	81-0841854	Delaware
Barings Euro Value Add II (BREEVA II)	None	Luxembourg
Barings Real Estate European Value Add I SCSp	None	United Kingdom
Barings Real Estate Debt Income Fund LP	85-3449260	Delaware
Barings Transportation Fund LP	87-1262754	Delaware
Braemar Energy Ventures I, L.P.	None	Delaware
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
Cornerstone Real Estate Fund X LP	46-5432619	Delaware
Gateway Mezzanine Partners II LP	90-0991195	Delaware
Great Lakes III, L.P.	37-1708623	Delaware
GIA EU Holdings - Emerson JV Sarl	None	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
KKR-MM Vector LP	82-1512591	Delaware
Marco Hotel LLC	46-4255307	Delaware
Miami Douglas One GP LLC	04-1590850	Delaware
Miami Douglas Two GP LLC	04-1590850	Delaware
Miami Douglas One LP	04-1590850	Delaware
Miami Douglas Two LP	04-1590850	Delaware
Miami Douglas Three MM LLC	04-1590850	Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641	Delaware
NYDIG Digital Assets Fund II LP	85-3886824	Delaware
HB Naples Golf Owner LLC	45-3623262	Delaware
MM CM Holding LLC	None	Delaware
MM Debt Participations LLC	81-3000420	Delaware
RB Apartments LLC	82-4411267	Delaware
Reston Arboretum LLC	75-2901061	Delaware
Somerset Special Opportunities Fund L.P.	20-8856877	Delaware
SouthPointe Industrial LLC	04-1590850	Delaware

	<u>Federal Tax ID</u>	NAIC Co Code State of Domicile
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 Two LLC	83-1325764	Delaware
Washington Gateway Three LLC	32-0574045	Delaware
West 46th Street Hotel LLC	05-1590850	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 European Growth Trust Fund	None	United Kingdom
Barings Global High Yield Fund	47-3790192	Massachusetts
CCIC Fund	None	Peoples Republic of China
Great Lakes II LLC	71-1018134	Delaware
Wood Creek Venture Fund LLC	04-1590850	Delaware
Barings Real Estate Affiliates & Funds:		
50 Liberty LLC	36-4823011	Delaware
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
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	45-2632610	Massachusetts
Cornerstone Permanent Mortgage Fund II	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund III	35-2531693	Massachusetts
Cornerstone Permanent Mortgage Fund IV	61-1793735	Massachusetts
CREA/PPC Venture LLC	20-0348173	Delaware
CREA Madison Member LLC	81-0890084	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
MM Brookhaven Member LLC	04-1590850	Delaware
MM East South Crossing Member LLC	04-1590850	Delaware
MM Horizon Savannah Member LLC	04-1590850	Delaware
One Harbor Shore LLC	80-0948028	Delaware
PACO France Logistics LLC	04-1590850	Delaware

	Federal Tax ID	NAIC Co Code	State of Domicile
Portland 400 Sixth Manager LLC	82-3393166		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Sawgrass Village Shopping Center LLC	27-2977720		Delaware
STOA Holding LLC	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Twenty Two Liberty LLC	35-2484550		Massachusetts
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC	45-5401109		Delaware
MassMutual Premier Funds:			
MassMutual Premier Focused International Fund	02-0754273		Massachusetts
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Select Funds:			
MassMutual Select Diversified Value Fund	01-0821120		Massachusetts
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
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 Asset Momentum Fund	47-3517233		Massachusetts
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
MML Series II Special Situations Fund	47-3559064		Massachusetts
MassMutual RetireSMART Funds:			
MassMutual RetireSMART 2035 Fund	27-1933380		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts

	Federal Tax ID NAIC Co	Code State of Domicile
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

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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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	Group Hamo	0000			U V	international,	Massachusetts Mutual Life Insurance Company			Massachusetts Mutual Life Insurance	0	iago i		(100/110)	1
0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			(MMLIC)	MA	UIP	Company	Ownership	100.000	MM_IC		
	massachusetts mut Life ilis co	00800	. 04-1550050	. 3040300			(MMLIO)	พก		Massachusetts Mutual Life Insurance	Owner Sirrp	100.000	I WWLTO		
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		
0000	massachusetts mut Life ilis co	70410	06-1041383				CML Mezzanine Investor III, LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	100.000	MMLIC		
0000			00-1041363				CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	100.000	MMLIC		
							OWE Special Situations investor LLC	UE	NIA	Massachusetts Mutual Life Insurance	. Towner strip	100.000	. WWLTC		
0000							CML Global Capabilities LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							OME GIODAI GAPADITITIES LEG		NIA	Massachusetts Mutual Life Insurance	. Towner strip	100.000	. WWLTC		
0000							MM Global Capabilities   LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
								UE	NIA	Company	Owner Strip	100.000	MINILIO		
0000							MassMutual Global Business Services India	IND		101 01 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		400.000	IIII 10		
0000							LLP	IND	NIA	MM Global Capabilities   LLC	Ownership	100.000	MMLIC		
0000							MM Global Capabilities (Netherlands) B.V	NLD	NIA	MM Global Capabilities   LLC	Ownership	100.000	MMLIC		
							MassMutual Global Business Services Romania	Dall				400.000			
0000							S.R.L.	R0U	NIA	MM Global Capabilities (Netherlands) B.V.	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	1				
0000							MM Global Capabilities II LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MM Global Capabilities III LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MML Special Situations Investor LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	C.M. Life Insurance Company	Influence		MMLIC		
0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC		
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							Lyme Adirondack Timberlands II, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							•			Massachusetts Mutual Life Insurance					
0000			04-1590850				MSP-SC, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			1			1				Massachusetts Mutual Life Insurance	1		1		
0000							EM Opportunities LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			1	1		1				Massachusetts Mutual Life Insurance	1		1		
0000							MassMutual MCAM Insurance Company, Inc	VT	NIA	Company	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Insurance Road LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000			04-1590850				MassMutual Trad Private Equity LLC	DE	NIA	Insurance Road LLC	Ownership	100.000	MMLIC		
0000			04-1590850				MassMutual Intellectual Property LLC	DE	NIA	Insurance Road LLC	Ownership.	100.000	MMLIC		
0000							Trad Investments I LLC	DE	NIA	Insurance Road LLC	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850	l	l	l	MassMutual Private Equity Funds LLC	DE	NIA	Company	Ownership	100.000	MMLIC		<u>                                     </u>
							MassMutual Private Equity Funds Subsidiary						1		
0000			04-1590850				LLC	DE	NIA	MassMutual Private Equity Funds LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							ITPSHolding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							HITPS LLC	DE	NIA	ITPS Holding LLC	Ownership.	100.000	MMLIC		
0000							III II O LEO			Massachusetts Mutual Life Insurance					
0000							JFIN Parent LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			27-0105644				Jefferies Finance LLC	DE	NIA	JFIN Parent LLC	Ownership	50.000	MMLIC		1
0000			21-U 1U3044			l	JUNETIES FINANCE LLU	UE		UTIN FATERIL LLU	.   Owner Strip	000.06	.  IVIVIL_1		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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						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	·) *
Ouc	Group Harrie	Oouc	Number	IXCOD	Oiix	international)	OT / tilliates	tion	Littley	Massachusetts Mutual Life Insurance	Other)	tage	Entity(les)/1 clson(s)	(103/140)	4
0000			86-2294635				Glidepath Holdings Inc.	DE	NIA		0	100.000	MMLIC		
										Company	Ownership				
0000	. Massachusetts Mut Life Ins Co	63312	13-1935920				Great American Life Insurance Company	H	IA	Glidepath Holdings Inc.	Ownership.	100.000	MMLIC		
0000			31-1422717				AAG Insurance Agency, LLC	KY	NIA	Great American Life Insurance Company	. Ownership	100.000	MMLIC		
0000	. Massachusetts Mut Life Ins Co	93661	31-1021738				Annuity Investors Life Insurance Company	OH	IA	Great American Life Insurance Company	Ownership	100.000	MMLIC		
0000			31-1395344				Great American Advisors, LLC	OH	NIA	Great American Life Insurance Company	Ownership	100.000	MMLIC		
0000			26-3260520				Manhattan National Holding LLC	OH	NIA	Great American Life Insurance Company	Ownership	100.000	MMLIC		
0000	Massachusetts Mut Life Ins Co	67083	45-0252531				Manhattan National Life Insurance Company	OH	IA	Manhattan National Holding LLC	Ownership.	100.000	MMLIC		
							. ,			Massachusetts Mutual Life Insurance					
0000	]		l	l	1	l	MassMutual Mortgage Lending LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000			1				JFIN GP Adviser LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
.0000							JFIN Fund III LLC	DE	NIA	Jefferies Finance LLC	Owner ship.	100.000	MMLIC		1
0000							Jefferies Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Owner ship.		MMLIC		
0000							Apex Credit Partners LLC	DE	NIA	Jefferies Credit Partners LLC	Owner ship.	100.000	MMLIC		
0000							JFAM GP LLC	DE	NI A	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	Jefferies Credit Partners LLC	. Ownership	100.000	MMLIC		
0000							Jefferies DLF C Holdings LLC	DE	NIA	JFAM GP LP	Ownership	100.000	MMLIC		
0000							Jefferies Direct Lending Fund C SPE LLC	DE	NIA	Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC		
0000							Jefferies Senior Lending LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN Revolver Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver Holdings II LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		1
0000							JFIN Co-Issuer Corporation	DE	NIA	Jefferies Finance LLC	Ownership.		MMLIC		1
0000							JFIN Europe GP, S.a.r.I.	LUX	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							Jefferies Finance Europe, S.L.P.	LUX	NIA	JFIN Europe GP. S.a.r.I.	Owner ship.	100.000	MMLIC		
0000									NIA	JFIN Europe GP. S.a.r.I.	Owner ship	100.000	MMLIC		
							Jefferies Finance Europe, SCSp	LUX							
0000							Jefferies Finance Business Credit LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Business Credit Fund   LLC	DE	NIA	Jefferies Finance Business Credit LLC	Ownership	100.000	MMLIC		
0000							JFIN Funding 2021 LLC	DE DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN High Yield Investments LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN LC Fund LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000						l	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	Owner ship.	100.000	MMLIC		
.0000							JFIN Revolver CLO 2017-III Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		1
.0000							JFIN Revolver CLO 2018 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
0000							JFIN Revolver CLO 2019 Ltd.	CYM	NIA	Jefferies Finance LLC	Owner ship.		MMLIC		1
0000			1				JFIN Revolver CLO 2019-II Ltd.	CYM	NIA	Jefferies Finance LLC	Owner ship.	100.000	MMLIC		1
								CYM	NIA						
.0000	1						JFIN Revolver CLO 2020 Ltd.			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 Fund, L.P.	DE	NIA	Jefferies Finance LLC	Ownership	90.000	MMLIC		
0000							JFIN Revolver Funding 2021 Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver Funding 2021 III Ltd.	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
.0000	]		l	l	1	l	JFIN Revolver Funding 2021 IV Ltd.	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000			1				Apex Credit Holdings LLC	DE	NIA	JEIN Parent LLC	Ownership	100.000	MMLIC		1
.0000							JFIN CLO 2012 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership.		MMLIC		1
0000							JFIN CLO 2012 Ltd.	CYM	NIA	Apex Credit Partners LLC	Owner ship.	100.000	MMLIC		1
0000 0000													MMLIC		1
							JFIN CLO 2014 Ltd	CYM	NIA	Apex Credit Partners LLC	. Ownership	100.000			
0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership.	100.000	MMLIC		
0000							JFIN CLO 2015 Ltd.	CYM	NIA	Apex Credit Partners LLC	. Ownership	100.000	MMLIC		
0000							JFIN CLO 2015-II Ltd.	<u>.</u> CYM	NIA	Apex Credit Partners LLC	. Ownership		MMLIC		
0000							JFIN CLO 2016 Ltd	CYM	NIA	Apex Credit Partners LLC	. Ownership	100.000	MMLIC		
0000							JFIN CLO 2017 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
0000				1	1	l	JFIN CLO 2017-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMI IC		1

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						No			D. L. C.						
						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)	*
	5155 p 1151115									Massachusetts Mutual Life Insurance		10.90		( )	
0000			04-1590850				MM Copper Hill Road LLC	DE	NIA	Company	Owner ship.	100.000	MMLIC		
			. 04-100000				min copper fifff fload LLC	UL		Massachusetts Mutual Life Insurance	Owner strip	100.000	. WWLTO		
0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Owner ship.	100.000	MMLIC		
							MM Direct Private Investments Nording LLC	GBR	NIA	MM Direct Private Investments Holding LLC .	Owner ship	100.000	MMLIC		
0000							min Direct IIIvate Investments on Elimited			Massachusetts Mutual Life Insurance	Owner strip	100.000	. WWLTO		
0000							MM Investment Holding	CYM	NIA	Company	Owner ship.	100.000	MMLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE DE	NIA	MM Investment Holding	Owner ship.	99.600	MLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Owner Ship	0.400	MMLIC		
0000			90-1005837				MMAF Equipment Finance LLC 2013-A	DE	NIA	MassMutual Asset Finance LLC	Ownership.	100.000	MMLIC		
0000			36-4785301				MMAF Equipment Finance LLC 2013-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			38-3969560				MMAF Equipment Finance LLC 2014-A	∪E	NIANIA	MassMutual Asset Finance LLC	Ownership.	100.000	MMLIC		
								DE					MMLIC		
0000			. 32-0489588 35-2590691				MMAF Equipment Finance LLC 2016-A	DE	NIA NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
								DE							
0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Owner ship	100.000	. MMLIC		
0000			82-5335801				MMAF Equipment Finance LLC 2018-A		NIA	MassMutual Asset Finance LLC	Ownership	100.000	. MMLIC		
0000			83-3722640				MMAF Equipment Finance LLC 2019-A	DE	NIA	MassMutual Asset Finance LLC	Owner ship	100.000	. MMLIC		
0000							MMAF Equipment Finance LLC 2019-B	DE	NIA	MassMutual Asset Finance LLC	Owner ship.	100.000	. MMLIC		
0000							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Owner ship	100.000	. MMLIC		
0000							Rozier LLC	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		
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	NIA	MML Management Corporation	Owner ship	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MML CM LLC	DE	NIA	Company	Owner ship	100.000	. MMLIC		
0000							Blueprint Income LLC	NY	NIA	MML CM LLC	Owner ship	100.000	MMLIC		
0000							Flourish Digital Assets LLC	DE	NIA	MML CM LLC	Ownership	100.000	. MMLIC		
0000							Flourish Financial LLC	DE	NIA	MML CM LLC	Owner ship	100.000	MMLIC		
0000							Flourish Technologies LLC	DE	NIA	MML CM LLC	Owner ship	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 04-3356880				MML Distributors LLC	MA	NIA	Company	Owner ship		MMLIC		
0000			04-3356880				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000	MMLIC		
										Massachusetts Mutual Life Insurance	Ī			1	
0000							MML Investment Advisers, LLC	DE	NIA	Company	Owner ship	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	Ī			1	
0000			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			06-1563535	2881445			The MassMutual Trust Company, FSB	CT	NIA	Company	Owner ship	100.000	MMLIC		
							MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance				1	
0000			04-1590850				LLC	DE	NIA	Company	Owner ship	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Company	Owner ship	100.000	. MMLIC		
0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Baring Asset Management Limited	Management	<b>.</b>	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	Company	Owner ship.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			45-2738137				Pioneers Gate LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
				[ "]						Massachusetts Mutual Life Insurance	1			1	"]
0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000			06-1597528				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Owner ship.	100.000	MMLIC		
. 0000			37-1732913				Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000			1				Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Owner ship.	100.000	MMLIC		
0000			46-2252944				Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Owner ship.	100.000	MMLIC		
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						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)	*
0000							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000						l	Athens Fund Management LLC	DF	NIA	MassMutual Ventures Holding LLC	Owner ship	100.000	MMLIC		1
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	Owner ship	100.000	MMLIC		1
							MassMutual Ventures SEA Management Private			,	, , , , , , , , , , , , , , , , , , , ,				
0000							Limited	DE	NIA	MassMutual Ventures Management LLC	Owner ship	100.000	MMLIC		1
0000							MassMutual Ventures Southeast Asia I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		[]
0000							MassMutual Ventures Southeast Asia II LLC	DE	NIA	MassMutual Ventures Holding LLC	Owner ship.	100.000	MMLIC		1
0000							MassMutual Ventures UK LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
0000			47-1296410				MassMutual Ventures US   LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		
0000							MassMutual Ventures US II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
0000		l					MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		
0000							MassMutual Ventures US IV LLC	DE	NI A.	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		
0000							Open Alternatives LLC	DE	NIA	MassMutual Ventures 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	48.900	MMLIC		[
0000							Rothesay Life Plc	GBR	NI A.	Rothesay Limited	Ownership.	100.000	MMLIC		
0000							Rothesav MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Ownership.	100.000	MMLIC		[
0000							Rothesay MA No.2 Limited	GBR	NI A.	Rothesay Life PLC	Ownership.	100.000	MMLIC		
0000							Rothesav MA No.3 Limited	GBR	NIA.	Rothesay Life PLC	Owner ship.	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		
0000							Rothesay Property Partnership 1 LLP	GBR	NIA	Rothesay Life PLC	Ownership.	100.000	MMLIC		
0000							Rothesay Foundation	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership.	100.000	MMLIC		
0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
0000							Rothesay Asset Management Australia Pty Ltd .	ALIS	NIA	Rothesay Asset Management UK Limited	Ownership.	100.000	MMLIC		
0000							Rothesay Asset Management US LLC	AUS DE	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
0000							MM Catalyst Fund LLC	DF	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
0000			47-1466022				LifeScore Labs, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000			04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
0000			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership.	100.000	MMLIC		
0000			45-4000072				MM Asset Management Holding LLC	DE	NIA	MassMutual Holding LLC	Owner ship.	100.000	MMLIC		
0000			51-0504477				Barings LLC	DE	NIA	MassMutual Asset Management Holding LLC	Ownership.	100.000	MMLIC		
0000			1144000				Baring Asset Management (Asia) Holdings				5				
0000			98-0524271				Limited	HKG	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000							Baring International Fund Managers (Bermuda)			Baring Asset Management (Asia) Holdings					
0000			98-0457465	1			Limited	BMU	NIA	Limited	Ownership.	100.000	MMLIC		1
			00-101-00				Limitod	DWIO		Baring Asset Management (Asia) Holdings	omioi oiiip		mmL1V		
0000			98-0457463	1			Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership.	100.000	MMLIC		1
0000			0-01400				Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Owner ship.	100.000	MMLIC		
0000							Barings Investment Management (Shanghai)		NI7	Dailing Asset Management (Asia) Ellillted	omici sittp		INVILIO		
0000							Limited	HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		1
0000							Barings Overseas Investment Fund Management		NIA	Barings Investment Management (Shanghai)	omici amp		mmLIV		
0000				I			(Shanghai) Limited	HKG	NIA	Limited	Ownership	100.000	MMLIC		1
0000							(Ondingnat) Limited			Baring Asset Management (Asia) Holdings	omioi silip	100.000	INVILIO		
0000			98-0457707				Baring SICE (Taiwan) Limited	TWN	NIA	Limited	Ownership	100.000	MMLIC		
0000			30-0431101				Dailing STOE (Talwall) Elilliteu	11111	NI M	Baring Asset Management (Asia) Holdings	OWING SITTP		WWILTO		
0000							Barings Singapore Pte. Ltd	SGP	NIA	Limited	Ownership	100.000	MMLIC		
0000							Dai mys omyapore rie. Liu.	our	NIA	Baring Asset Management (Asia) Holdings	owner strip	100.000	WWLIV		
0000			98-0236449				Barings Japan Limited	JPN	NIA	Limited	Ownership.	100.000	MMLIC		
0000			30-0230449				Dai mys Japan Limiteu	JFIV	NIA	Baring Asset Management (Asia) Holdings	Owner sillp	100.000	WWLIG		
0000				I			Barings Australia Holding Company Pty Ltd	AUS	NIA	Limited	Ownership	100.000	MMLIC		1
טטטע							parings Austraina nording company Pty Ltd	6UA	NIA	Limited	Owner sittp	100.000	MWLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	'
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Group	One we Name	Company		Federal RSSD	OUZ	(U.S. or	Parent, Subsidiaries Or Affiliates	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	, ,
Code	Group Name	Code	Number	RSSD	CIK	International)		tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	4
0000			. 98-0457456 . 80-0875475				Barings Australia Pty Ltd	AUS	NIA	Baring Australia Holding Company Pty Ltd Barings LLC	Owner ship.	100.000	MMLIC		
0000			. 80-08/54/5					DE	NIA		Owner ship		MMLIC		
0000							BCF Europe Funding Limited BCF Senior Funding   LLC	IRL	NIA NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000							BCF Senior Funding   Designated Activity	UE	NIA	barings Finance LLC	Owner Strip		. INIVILITY		
0000							Company	IRL	NIA	Barings Finance LLC	Ownership.	100.000	MMLIC		!
0000			04-3238351				Barings Securities LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
0000			98-0437588				Barings Guernsev Limited	GGY	NIA	Barings LLC	Owner ship.	100.000	MMLIC		
0000			. 50 0 107 000				Barings Europe Limited	GBR	NIA	Barings Guernsey Limited	Owner ship	100.000	MMLIC		
0000			]				Barings Asset Management Spain SL	ESP	NIA	Barings Europe Limited	Owner ship.	100.000	MMLIC		
0000			]				Barings Italy S.r.I.	ITA	NIA	Barings Europe Limited	Owner ship.	100.000	MMLIC		
0000							Barings Sweden AB	SWE	NIA	Barings Europe Limited	Ownership.	100.000	MMLIC		
0000							Barings Netherlands B.V.	NLD	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000							Barings Real Estate UK Holdings Limited	DE	NIA	Barings Europe Limited	Ownership.	100.000	MMLIC		
							Barings Real Estate Advisers (Continental				· ·				'
0000			. 98-0654401				Europe) Limited	GBR	NIA	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		
0000			. 98-1194368	.			Barings Real Estate GmbH	DEU	NIA	Barings Real Estate UK Holdings Limited	Owner ship	100.000	. MMLIC		
0000			. 98-0241935				Baring Asset Management Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	. MMLIC		
0000							Barings European Direct Lending 1 GP LLP	GBR	NIA	Baring Asset Management Limited	Owner ship	100.000	. MMLIC		
0000			. 98-1012393				Barings Global Advisors Limited	<u>G</u> BR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
000Q			. 98-0457328				Baring International Investment Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
							Baring International Investment Management								'
0000			. 98-0457587				Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
										Baring International Investment Management					'
0000			. 98-0457576				Baring Asset Management UK Holdings Limited.	GBR	NIA	Holdings	Ownership	100.000	MMLIC		
							Baring International Fund Managers (Ireland)			Baring Asset Management UK Holdings Limited	١	400.000			!
0000			. 98-0524272				Limited	IRL	NIA	5	Ownership	100.000	MMLIC		
0000								O. IF		Baring Asset Management UK Holdings Limited	١	400 000	188 10		!
0000							Baring Asset Management Switzerland Srl	CHE	NIA	Baring Asset Management UK Holdings Limited	Owner ship	100.000	MMLIC		· · · · · · · · · · · · · · · · · · ·
0000			00 0407550				D CAO	ED4	NIA	Baring Asset Management UK Holdings Limited	0	100 000	MM 10		'
0000			. 98-0497550 98-0457586				Baring France SAS	FRA	NIA	Daving Asset Management Limited	Ownership	100.000	MMLIC		
0000			. 90-043/300				Baring Fund Managers LimitedBCGSS 2 GP LLP	upn	NIA	Baring Asset Management Limited	Owner Strip.	100.000	MMLIC		
0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Fund Managers Limited	Owner Strip	100.000	MMLIC		
0000			. 30-040/0/0	1			Barings Core Fund Feeder I GP S.à.r.I.	LUX	NIA	Barings Europe Limited	Owner ship.	100.000	MMLIC		
0000							Barings BME GP S.à.r.I.	GBR	NIA	Barings Europe Limited	Owner Strip	100.000	MMLIC		
0000			1				Barings GPC GP S.à. r.I .	LUX	NIA	Barings Europe Limited	Owner ship	100.000	MMLIC		ļ
0000			1				Barings European Core Property Fund GP Sàrl .	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000		··	1				Barings Investment Fund (LUX) GP S.à. r.l	LUX	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000							Barings Umbrella Fund (LUX) GP S.à.r.I.	LUX	NIA	Barings Europe Limited	Owner ship.	100.000	MMLIC		
0000			1				GPLF4(S) GP S.à r.1	LUX	NIA	Barings Europe Limited	Owner ship.	100.000	MMLIC		
0000							PREIF Holdings Limited Partnership	GBR	NIA	Barings Europe Limited	Owner ship	100.000	MMLIC		
0000			98-0432153				Barings (U.K.) Limited	GBR	NIA	Barings Guernsev Limited	Ownership.	100.000	MMLIC		
0000							BMC Holdings DE LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
0000			04-3238351	3456895			Barings Real Estate Advisers Inc.	CA	NIA	Barings LLC	Owner ship.	100.000	MMLIC		
			1	1			_			Massachusetts Mutual Life Insurance					]
0000			. 81-4258759	.			CRA Aircraft Holding LLC	DE	NIA	Company	Ownership/Influence	40.000	MMLIC		
0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Barings LLC	Influence.		MMLIC		
			1	1						Massachusetts Mutual Life Insurance					
0000			. 83-0560183	.			Aland Royalty Holdings LP	DE	NIA	Company	Ownership	26.700	MMLIC		
0000			83-0560183	.			Aland Royalty Holdings LP	DE	NIA	Barings LLC	Management		MMLIC		
								1		Massachusetts Mutual Life Insurance					1
0000			. 82-2932156				GASL Holdings LLC	DE	NIA	Company	Ownership	11.300	MMLIC		
0000			82-2932156	.l	l	1	GASL Holdings LLC	DE	NIA	Barings LLC	BOARD		MMLIC		1

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						Name of Constition			Relation-						
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						Exchange		Domi-	ship		Management,	ship		Filing	
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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					
0000			. 46-2344300				Intermodal Holdings II LLC	DE	NIA	Company	Ownership.	18.000	MMLIC	.	.[]
0000			46-2344300				Intermodal Holdings II LLC	DE	NIA	Barings LLC	Management		MMLIC		
							-			Massachusetts Mutual Life Insurance					
0000							Novation Companies, Inc.	MD	NIA	Company	Ownership.	16.500	MMLIC		
0000							Novation Companies, Inc.	MD	NIA	Barings LLC	. Influence		MMLIC		
							•			Massachusetts Mutual Life Insurance					
0000			. 46-5460309				Red Lake Ventures, LLC	DE	NIA	Company	Ownership/Influence	31.500	. MMLIC		
0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-4065378				Remington L & W Holdings LLC	DE	NIA	Company	Ownership/Influence	19.900	MMLIC		.
0000			81-4065378				Remington L & W Holdings LLC	DE	NIA	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Tamiami Citrus, LLC	DE	NIA	Company	Ownership.	15.700	MMLIC	.	.[]
0000							Tamiami Citrus, LLC	DE	NIA	Barings LLC	. Management/Board		. 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		.
										Massachusetts Mutual Life Insurance					
0000							Techquity, LP	DE	NIA	Company	Ownership	15.600	MMLIC		.
0000							Techquity, LP	DE	NIA	Barings LLC	Influence		MMLIC	.	
0000			46-0687392			l	Validus Holdings Company LLC	DE	NIA	Barings LLC	Owner ship.	40.400	MMLIC	.	.
										Massachusetts Mutual Life Insurance	·				
0000							Validus Pharmaceuticals LLC	DE	NIA	Company	Ownership/Influence	70.000	MMLIC		.
0000						l	Validus Pharmaceuticals LLC	DE	NIA	Barings LLC	BOARD		MMLIC	.	.
0000							VGS Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	33.300	MMLIC		.
0000							VGS Acquisition Holding, LLC	DE	NIA	Barings LLC	Management		MMLIC		
0000							Aland Royalty GP, LLC	DE	NIA	Barings LLC	. Ownership.	100.000	. MMLIC	.	.[]
0000							Alaska Future Fund GP, LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000							BAI GP, LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC		
0000							BAI Funds SLP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							Baring Asset-Based Income Fund (US) GP, LLC.	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC		
0000							Barings CMS Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	. MMLIC		
0000							Barings Hotel Opportunity Venture I GP, LLC.	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC		
0000							Barings Investment Series 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	MMLIC	.	.
							Barings Global Investment Funds (U.S.)								
0000			. 04-1590850				Management LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	
0000							Barings CLO Investment Partners GP, LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC		
0000							Barings Core Property Fund GP LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	.
0000							Barings Direct Lending GP Ltd	CYM	NIA	Barings LLC	. Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 84-3784245				Barings Emerging Generation Fund LP	DE	NIA	Company	Owner ship	59.100	MMLIC		
0000			. 84-3784245				Barings Emerging Generation Fund LP	DE	NIA	Barings LLC	. Management		. MML1C		
							Barings Global Energy Infrastructure								
0000							Advisors, LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	
							Barings North American Private Loan Fund								
0000							Management, LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	
							Barings North American Private Loan Fund								
0000							Management II, LLC	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	
0000							Barings Global Real Assets Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	. MMLIC	.	
0000							Barings GPSF	DE	NIA	Barings LLC	. Ownership	100.000	. MMLIC	.	
										Massachusetts Mutual Life Insurance					
0000			. 84-5063008				Barings Small Business Fund LLC	DE	NIA	Company	Ownership	73.500	MMLIC		

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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							BHOVI Incentive LLC	DE	NIA	Barings LLC	. Ownership	100.000	MMLIC		
0000							BIG Real Estate Fund GP LLC	DE	NIA NIA	Barings LLC	. Ownership	100.000	MMLIC		
0000							BREDIF GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							CHY Venture GP LLC	DE	NIA	Barings LLC	Owner ship.	100.000	MMLIC		
0000							CREF X GP LLC	UE	NIA	Barings LLC	. Ownership.	100.000	MMLIC		
0000			04-1590850				Great Lakes III GP, LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
0000			04 1000000				Lake Jackson LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000			04-1590850				Loan Strategies Management LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
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		
0000							Mezzco Australia II LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000							RECSA-NY GP LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000			04-1590850				SBNP SIA II LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000							SBNP SIA III LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
							Somerset Special Opportunities Management LLC			, and the second					
0000			04-1590850					DE	NIA	Barings LLC	. Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Amherst Long Term Holdings, LLC	DE	NIA	Company	Ownership	24.500	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-3313782				MassMutual International LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							MassMutual Solutions LLC	DE	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
0000							Haven Technologies Asia Limited	HKG	NIA	MassMutual Solutions LLC	. Ownership	100.000	MMLIC		
0000							Yunfeng Financial Group Limited	HKG	NIA	MassMutual International LLC	Ownership	24.900	MMLIC		
0000							MassMutual Asia Limited (SPV)	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	L				
0000			04-1590850				MML Mezzanine Investor II, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
								25		Massachusetts Mutual Life Insurance		44 400			
0000			04-1590850				MML Mezzanine Investor III, LLC	DE	NIA	Company	Ownership	11.100	MMLIC		
0000			07 0570005				Non-Maturi Futanci Bandita Comuniti	חר	ALLA	Massachusetts Mutual Life Insurance	0	100,000	MMLIC		
0000			27-3576835				MassMutual External Benefits Group LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000		1	04-1590850	1	1		100 w. 3rd Street LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
			U+-1080000				100 W. OIG STIEST LLO	UE	NIA	Massachusetts Mutual Life Insurance	owner strip	100.000	MWILTO	[	
0000		I	04-1590850	1	I		2160 Grand Manager LLC	DE	NIA	Company	Ownership.	5.000	MMLIC		1
							2 100 Grand manager ELO			Massachusetts Mutual Life Insurance	omioi onip		- mmL1V		
0000		I	82-2432216	1	I		300 South Tryon Hotel LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		1
										Massachusetts Mutual Life Insurance					
0000			04-1590850				300 South Tryon LLC	DE	NIA	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							LLC	DE	NIA	Company	Ownership	100.000	MMLIC	[	<b> </b>
		1	1	1	1		Barings Affordable Housing Mortgage Fund I				·				
0000		.					LLC	DE	NIA	Barings LLC	. Management		MMLIC	[	
		1	1	1	1		Barings Affordable Housing Mortgage Fund II	1		Massachusetts Mutual Life Insurance					
0000			61-1902329				LLC	DE	NIA	Company	Ownership	100.000	MMLIC	[	
		I	I	1	I		Barings Affordable Housing Mortgage Fund II	1							1
0000			61-1902329				LLC	DE	NIA	Barings LLC	. Management		MMLIC		
1 1		1		1	1		Barings Affordable Housing Mortgage Fund III	l		Massachusetts Mutual Life Insurance					
0000			85-3036663				LLC	DE	NIA	Company	Ownership	100.000	MMLIC		l

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Type	lf			1
											of Control	Control			1
											(Ownership,	is		Is an	1
						Name of Constition			Dalatian						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?	Ì
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
	•					,	Barings Affordable Housing Mortgage Fund III				Í	Ĭ	, , , , , , , , , , , , , , , , , , ,	i í	
0000			. 85-3036663				LLC	DE	NIA	Barings LLC	Management		MMLIC		.1
										Massachusetts Mutual Life Insurance					1
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Company	Ownership/Influence	11.200	MMLIC		1
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC		
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Barings LLC	Management		MMLIC		
							Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance					[
0000								IRL	NIA	Company	Ownership/Influence	48.700	MMLIC		1
							Barings Emerging Markets Corporate Bond Fund			o simparij	omici diripi mi adilico				1
0000		]			I		Us solid i did	IRL	NIA	Barings LLC	Ownership	15.200	MMLIC		1
			1				Barings European Real Estate Debt Income Fund			Massachusetts Mutual Life Insurance					[
0000		]			I		Indiana Locate Dobt Income Fund	LUX	NIA	Company	Ownership/Influence	94.800	MMLIC		1
5000							Barings European Real Estate Debt Income Fund			, , , , , , , , , , , , , , , , , , ,	Same only initiation				
0000		]			I		Daringo Europour nour Estate Dept mobile Fund	LUX	NIA	Barings LLC	Influence		MMLIC		1
0000							Babson Capital Global Special Situation		NIA	Massachusetts Mutual Life Insurance			I WWLTO		
0000			98-1206017				Credit Fund 2	DE	NIA	Company	Ownership/Influence	25.500	MMLIC		1
0000			30-1200017				Babson Capital Global Special Situation	UL		Company	Owner simp/ initruence	20.000	. WWL10		
0000			98-1206017				Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership	1,600	MMLIC		1
0000			. 30-1200017				Babson Capital Global Special Situation	UE	NIA	C.M. Life insurance company	. Towner Sirrp	1.000	. WWILTO		
0000			98-1206017				Credit Fund 2	DE	NIA	Barings LLC	Management		MMLIC		1
0000			. 90-1200017				oreart runa 2	∪⊏	NIA	Massachusetts Mutual Life Insurance	mariagement	·····	WINILIU		
0000			07.4500447					DE	ALL A			75 700	188 10		1
0000			. 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Company	Ownership/Influence	75.700 3.800	MMLIC		
0000			. 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	3.800			ļ
0000			. 37–1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Barings LLC	Management	·····	MMLIC		
										Massachusetts Mutual Life Insurance		50.000			1
0000							Barings US High Yield Bond Fund	IRL	NIA	Company	Ownership/Influence	53.900	MMLIC		
0000							Barings US High Yield Bond Fund	IRL	NIA	Barings LLC	Management	·····	MMLIC		
0000							Babson CLO Ltd. 2013-I	CYM	NIA	Barings LLC	Influence		MMLIC		3
0000							Babson CLO Ltd. 2014-I	CYM	NIA	Barings LLC	Influence	·····	MMLIC		2
0000							Babson CLO Ltd. 2015-I	CYM	NIA	Barings LLC	Influence		MMLIC		4
0000							Babson CLO Ltd. 2015-II	CYM	NIA	Barings LLC	Influence		MMLIC		5
0000							Babson CLO Ltd. 2016-I	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2016-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO Ltd. 2017-I	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2018-III	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2018-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
0000			. 98-1473665				Barings CLO 2019-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2019-III	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2019-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
000Q			.				Barings CLO 2020-1	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2020-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2020-III	CYM	NIA	Barings LLC	Influence		MMLIC		<b> </b>
0000							Barings CLO 2020-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2021-I	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2021-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2014-I BV	NLD	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2014-II BV	NLD	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2015-I BV	NLD	NI A	Barings LLC	Influence		MMLIC		
0000			. 36-037260H				Barings Euro CLO 2019-I BV	IRL	NIA	Barings LLC	Influence		MMLIC		
0000			00-3750378				Barings Euro CLO 2019-II BV	IRL	NIA	Barings LLC	Influence		MMLIC		
0000							Barings Euro CLO 2020-I DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
0000			37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NIA	Barings LLC	Influence.		MMLIC		1
0000			]				Barings Euro CLO 2021-II DAC	IRL	NIA	Barings LLC	Influence		MMLIC		l

	PARI 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM														
1	2	3	4	5	6	7	8	9	10	11	12	13 If	14	15	16
											Type				
											of Control	Control		lo on	
						Name of Oak with a			Dalation		(Ownership,	is		Is an	
						Name of Securities Exchange		Domi	Relation- ship		Board, Management,	Owner- ship		SCA Filing	
		NAIC					Names of	Domi-	- 1			- 1			
Croun		NAIC	ID	Federal		if Publicly Traded	Names of Parent, Subsidiaries	ciliary	to	Directly Controlled by	Attorney-in-Fact, Influence,	Provide	Liltimata Controllina	Re- quired?	
Group Code	Croup Namo	Company Code		RSSD	CIK	(U.S. or International)	Or Affiliates	Loca- tion	Reporting Entity	Directly Controlled by (Name of Entity/Person)	Other)	Percen-	Ultimate Controlling Entity(ies)/Person(s)	(Yes/No)	*
Code	Group Name	Code	Number	KOOD	CIK	international)	Of Affiliates	lion	Entity	Massachusetts Mutual Life Insurance	Other)	tage	Entity(les)/Ferson(s)	(165/110)	
0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Company	Ownership/Influence	99.300	MMLIC		
0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Barings LLC	Management		MMLIC		
,							Dai mgo ozo mrootmont i ar thoro zi			Massachusetts Mutual Life Insurance					
0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Company	Ownership/Influence	62.700	MMLIC		
0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	C.M. Life Insurance Company	Owner ship	5.500	MMLIC		
0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Barings LLC	Management		MMLIC		
							Barings Real Estate European Value Add I SCSp			Massachusetts Mutual Life Insurance					
0000							D : D   E	GBR	NIA	Company	Ownership/Influence	44.600	MMLIC		
0000							Barings Real Estate European Value Add I SCSp	GBR	NIA	C.M. Life Insurance Company	Ownership	5.000	MMLIC		
							Barings Real Estate European Value Add I SCSp	Han	INTA	o.w. Lite insurance company	owner smp	000	NIVIL I C		·····
0000							bailings hear Estate European value Auu 1 303p	GBR	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	managonori		I IIII		
0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Company	Ownership/Influence	71.800	MMLIC		
0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership.		MMLIC		
0000			85-3449260	.			Barings Real Estate Debt Income Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
0000			82-5330194				Barings Global Em. Markets Equity Fund	NC	NIA	Barings LLC	Management		MMLIC		
							Barings Global Energy Infrastructure Fund I			Massachusetts Mutual Life Insurance					
0000			98-1332384				LP	<u>.</u> CYM	NIA	Company	Ownership/Influence	99.200	MMLIC		
0000			00 1000004				Barings Global Energy Infrastructure Fund I	OVAL	NII A	Daning Assat Management Limited	W		INN 10		
0000			98-1332384				Parings Clabal Dividends Chamian Fund	CYM	NIA NIA	Baring Asset Management Limited Barings LLC	Management Management		MMLIC		
0000							Barings Global Dividends Champion Fund Barings Global Inv. Grade Strat Fund	IRL	NIA	Barings LLC	Management Management		MMLIC		
0000							Dairings Grobar IIIV. Grade Strat Fund		NIA	Massachusetts Mutual Life Insurance	Mariagement		I WWILTO		
0000							Barings Global Private Loan Fund	LUX	NIA	Company	Ownership/Influence	8.900	MMLIC		
0000							Barings Global Private Loan Fund	LUX	NIA	Barings LLC	Management		MMLIC		
							<b>y</b>			Massachusetts Mutual Life Insurance					
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Company	Ownership/Influence	42.500	MMLIC		
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.500	MMLIC		
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management	<del>-</del>	MMLIC		
							Barings Global Special Situations Credit Fund			Massachusetts Mutual Life Insurance		40.400			
0000							3	IRL	NIA	Company	Ownership/Influence	16.100	MMLIC		
0000							Barings Global Special Situations Credit 4 Delaware	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	67.100	MMLIC		
0000							Barings Global Special Situations Credit 4	UĽ	INTA	ounpany	owner strip		. INVINE I C		
0000							Delaware	DE	NIA	C.M. Life Insurance Company	Ownership.	3.500	MMLIC		
							Barings Global Special Situations Credit 4						1		
0000							Delaware	DE	NIA	Barings LLC	Management		MMLIC		
							Barings Global Special Situations Credit 4			Massachusetts Mutual Life Insurance					
0000							LUX	LUX	NIA	Company	Ownership	14.400	MMLIC		
							Barings Global Special Situations Credit 4								
0000							LUX	LUX	NIA	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
0000							Barings Global Special Situations Credit 4	LIIV	NIA	Barings LLC	Management		MMLIC		
0000							Barings Global Special Situations Credit Fund	LUX	NIA	Dat trigs LLC	. Management		MWLIC		
0000							3	IRL	NIA	Barings LLC	Management		MMLIC		
0000			87-0977058				Barings Hotel Opportunity Venture	CT	NIA	Barings LLC	Ownership/Influence	94.500	MMLIC		
0000			87-0977058				Barings Hotel Opportunity Venture	CT	NIA	Barings LLC	Management.		MMLIC		
							Barings Innovations & Growth Real Estate Fund			Massachusetts Mutual Life Insurance					
0000			86-3661023	.				DE	NIA	Company	Ownership.	46.500	MMLIC		
							Barings Innovations & Growth Real Estate Fund								
0000			86-3661023	.				DE	NIA	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
0000							Barings Middle Market CLO 2017-I Ltd & LLC	CYM	NIA	Barings LLC	Influence		MMLIC		l

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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			Attorney-in-Fact,	Provide		Re-	1
									to	5 6					]
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	•						Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence_		MMLIC		
0000							Barings Middle Market CLO 2019-1	CYM		Barings LLC	Influence.		MMLIC		
0000			98-1612604				Barings Middle Market CLO Ltd 2021-1	CYM	NIA	Barings LLC	Influence		MMLIC		
			30 1012004				barrings miradic market old Ltd 2021 1			Massachusetts Mutual Life Insurance	- IIII ucilco		. ININETO		
0000			38-4010344				Danisana Nasak Assasiana Daisanka Lasa Farad LD	DE	NIA		Ownership/Influence	37,400	MMLIC		
							Barings North American Private Loan Fund LP .	DE		Company		37.400			
0000			38-4010344				Barings North American Private Loan Fund $\operatorname{LP}$ .	DE	NIA	Baring Asset Management Limited	. Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Company	Ownership/Influence	33.700	. MMLIC		
0000			98-1332384	l			Barings RE Credit Strategies VII LP	DE	NIA	Baring Asset Management Limited	Management		MMLIC		.
0000			87-1262754				Barings Transportation Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	13.100	MMLIC		1
1							5			Massachusetts Mutual Life Insurance					
0000			87-1262754				Barings Transportation Fund LP	DE	NIA	Company	Ownership.	9.700	MMLIC	1	l l
			01 1202104				Daringo iranoportation lunu Li			Massachusetts Mutual Life Insurance	omorality				
0000								DE				74 400	188.10		
0000							Braemar Energy Ventures I, L.P.		NIA	Company	Ownership/Influence	74.400	. 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		MMLIC		
0000							Barings European Core Property Fund SCSp	LUX	NI A	MassMutual Holding LLC	Ownership/Influence	9.100	MMLIC		.
0000							Barings European Core Property Fund SCSp	LUX	NI A	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		1
							barrigo European coro rroporty rana coop			Massachusetts Mutual Life Insurance	- India a gomert				
0000			46-5001122				Barings European Private Loan Fund III A	LIIV	NIA	Company	Ownership	20.000	MMLIC		1
			38-4059932					LUX	NIA	Barings LLC	Influence		MMLIC		
0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	NY				··· <del>·</del>			
0000							Benchmark 2018-B4	NY	NIA	Barings LLC	. Influence.	· · · · · · · · · · · · · · · · · · ·	MMLIC		
0000			38-4096530				Benchmark 2018-B8	NY		Barings LLC	. Influence		MMLIC		
0000			20-5578089				Barings Core Property Fund LP	DE	NI A	MassMutual Holding LLC	. Ownership/Influence	21.000	MMLIC		
0000			20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Company	Ownership/Influence	24.500	MMLIC		
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	C.M. Life Insurance Company	Ownership	2.700	MMLIC		
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
			10 0102010				corner et cine ricar Estate rana x El			Massachusetts Mutual Life Insurance	managomone		inite 10		
0000			35-2531693				Cornerstone Permanent Mortgage Fund III LLC .	MA	NIA	Company	Ownership/Influence	100.000	MMLIC		
			33-233 1093				Cornerstone Fermanent Mortgage Fund III LLC.	MA	NIA		Owner Strip/ Intruence	100.000	. WINILIU		
0000			04 4700705				0 1 5 10 5 1000			Massachusetts Mutual Life Insurance		400 000	WW 10		1
0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	MA	NIA	Company	Ownership	100.000	. MMLIC		.
								1		Massachusetts Mutual Life Insurance		1			1
0000			90-0991195		001597511		Gateway Mezzanine Partners II LP	DE	NIA	Company	Ownership/Influence	32.100	MMLIC		1
0000			90-0991195	llo	001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Ownership	4.800	MMLIC		
0000			90-0991195		001597511		Gateway Mezzanine Partners II LP	DE	NIA	Barings LLC	Management		MMLIC		
							,			Massachusetts Mutual Life Insurance				1	
0000			37-1708623				Great Lakes III. L.P.	ne ne	NIA	Company	Ownership/Influence	41,400	MMLIC		1
0000			37-1708623				Great Lakes III. L.P.	DE	NIA	Barings LLC	Management.		MMLIC		1
0000			31-1100023				uleat Lakes III, L.F.	UE	NIA		. management		. INMILIO		
			1					1		Massachusetts Mutual Life Insurance	l	40.000			1
0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Company	Ownership/Influence	40.600	. MMLIC		.
0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	. Management		. MMLIC		
							JPMCC Commercial Mortgage Securities Trust	1				1			1
0000			38-4041011	.			2017-JP7	NY	NIA	Barings LLC	. Influence	<u> </u>	. MMLIC	l	
							JPMDB Commercial Mortgage Securities Trust			· ·					1
0000			38-4032059				2017-C5	NY	NIA	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-1512591				KKR-MM Vector LP	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		1
			02-1012091				NND-WWW VEGION LF	UE	NIA		owner sirrp/ mirruence	100.000	. INVINIL TO		1
			40 4055005							Massachusetts Mutual Life Insurance	l	400.005			1
0000			46-4255307				Marco Hotel LLC	DE	NIA	Company	Ownership	100.000	. MMLIC		
1 1			1					1		Massachusetts Mutual Life Insurance					1
0000			04-1590850		<u></u>		Miami Douglas One GP LLC	DE	NIA	Company	Influence		MMLIC		

	PART IA - DETAIL OF INSURANCE HOLDING COMPANT STSTEM														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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											(Ownership,	is		Is an	
						No			D. L. C.			_			
						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-	
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			04-1590850				Miami Douglas One GP LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	5.500	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Miami Douglas Two GP LLC	DE	NIA	Company	. Influence		MMLIC		
0000			04-1590850				Miami Douglas Two GP LLC	DE	NI A	C.M. Life Insurance Company	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Miami Douglas One LP	DE	NI A	Company	. Ownership	90.000	. MMLIC		
0000			04-1590850				Miami Douglas One LP	DE	NIA	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Miami Douglas Two LP	DE	NIA	Company	Ownership	90.000	MMLIC		
0000			04-1590850				Miami Douglas Two LP	DE	NIA	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Miami Douglas Three MM LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	Company	. Ownership	91.500	MMLIC		
0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	2.800	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			85-3886824				NYDIG Digital Assets Fund II LP	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			45-3623262				HB Naples Golf Owner LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MM CM Holding LLC	DE	NIA	Company	. Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-3000420				MM Debt Participations LLC	DE	NIA	Company	. Ownership/Influence	100.000	MMLIC		
0000			81-3000420				MM Debt Participations LLC	UE	NIA	Barings LLC	Management	<del>-</del>	MMLIC		
0000			00 4444007				DD 4 4 4 110	DE	A11.4	Massachusetts Mutual Life Insurance		400 000	IIII 10		
0000			82-4411267				RB Apartments LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			75-2901061				Reston Arboretum LLC	DE	NIA		Ownership.	100.000	MMLIC		
0000			75-2901001				Hestori Arboretum LLC	VE	NIA	Company	. Owner Ship	100.000	. WINLIG		
0000			20-8856877				Somerset Special Opportunities Fund L.P.	DE	NIA	Company	Ownership/Influence	40.100	MMLIC		
0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	C.M. Life Insurance Company	Ownership.	1.900	MMLIC		
0000			04-1590850				SouthPointe Industrial LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
			0.1 1000000				Outil onto maddirar LLo			Massachusetts Mutual Life Insurance					
0000			35-2553915				Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			41-2280127				Tower Square Capital Partners III, L.P.	DE	NIA	Barings LLC	Management		MMLIC		
0000			41-2280127				Tower Square Capital Partners III, L.P.	DE	NIA	MassMutual Holding LLC	Ownership/Influence	18.600	MMLIC		
									1	Massachusetts Mutual Life Insurance					
0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
0000			41-2280129	1	l		Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management		MMLIC		
		1								Massachusetts Mutual Life Insurance					
0000		.	04-1590850		l		Trailside MM Member LLC	DE	NIA	Company	Ownership.	59.600	MMLIC		
0000			04-1590850				Trailside MM Member LLC	DE	NIA	C.M. Life Insurance Company	Owner ship.	7.400	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			83-1325764				Washington Gateway Two LLC	DE	NIA	Company	Owner ship	89.300	MMLIC		
0000			83-1325764				Washington Gateway Two LLC	DE	NIA	C.M. Life Insurance Company	Owner ship.	6.700	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			32-0574045				Washington Gateway Three LLC	DE	NIA	Company	Ownership.	83.900	MMLIC		
0000			32-0574045				Washington Gateway Three LLC	DE	NIA	C.M. Life Insurance Company	Owner ship	11.400	MMLIC		
			]				,			Massachusetts Mutual Life Insurance	,				
0000		.	04-1590850				West 46th Street Hotel LLC	DE	NIA	Company	. Ownership	100.000	MMLIC		
			1				Babson Capital Loan Strategies Master Fund LF								
0000		.					-	CYM	NIA	Barings LLC	Management		MMLIC		
		1	1				Barings China Aggregate Bond Private				-				
0000		.					Securities Investment Fund	CHN	NI A	Barings LLC	Management		MMLIC		

	PARI 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											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		to		Attorney-in-Fact,			Re-	
0			ID	Fadami			Names of	ciliary		Discrete Construit ad his		Provide	Lillian ata Cantrollian		
Group	One Mana	Company		Federal	Olle	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by (Name of Entity/Person)	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity		Other)	tage	Entity(ies)/Person(s)	(Yes/No)	4
0000			47. 0700 400				Barings European Growth Trust Fund	GBR	NIA	Barings LLC	Ownership/Influence	21.400	MMLIC		
0000			47-3790192				Barings Global High Yield Fund	MA	NIA	Barings LLC	Management	00.400	MMLIC		
0000							CCIC Fund	CHN	NIA	Barings LLC	Ownership/Influence	60 . 100	MMLIC		
0000			71-1018134				0	DE	NIA	Massachusetts Mutual Life Insurance	0	10,000	MMLIC		
0000							Great Lakes II LLC	DE		Company	Ownership	10.600	MMLIC		
			71–1018134				Great Lakes II LLG	UE	NIA	C.M. Life Insurance Company	Ownership	0.100	MMLIC		
0000			04-1590850				Wood Creek Venture Fund LLC	DE	NIA	Company	Ownership.	40.000	MMLIC		
0000			. 04-1590650				wood creek venture rund LLC	UE	NIA	Massachusetts Mutual Life Insurance	. Owner strip	40.000	. WIVIL TO		
0000			36-4823011		1		50 Liberty LLC	DE	NIA		Ownership.	65.000	MMLIC		
0000			36-4823011				50 Liberty LLC	DE	NIA	Company C.M. Life Insurance Company	Ownership	5.800	MMLIC		
			00-4020011				OU LIBERTY LLU			Massachusetts Mutual Life Insurance	- Omior sittp	000.0	. mmL10		
0000				1	I		Barings California Mortgage Fund IV	CA	NIA	Company	Ownership	100.000	MMLIC		
0000							Dairings carriorina wortgage runu iv	0		Massachusetts Mutual Life Insurance	Owner strip	100.000	WWLTO		
0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Company	Ownership	50.000	MMLIC		
0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	C.M. Life Insurance Company	Ownership.	2.300	MMLIC		
							Sarringo simprorra rana 25% ocop orom rani			Massachusetts Mutual Life Insurance					
0000			82-2285211				Calgary Railway Holding LLC	DE	NIA	Company	Ownership.	90.000	MMLIC		
0000			82-2285211				Calgary Railway Holding LLC	DE	NIA	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
							J. J. J. J. J. J. J. J. J. J. J. J. J. J			Massachusetts Mutual Life Insurance					
0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NI A	Company	Ownership	100.000	MMLIC		.
										Massachusetts Mutual Life Insurance					
0000			95-4207717				Cornerstone California Mortgage Fund I LLC	CA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			95-4207717				Cornerstone California Mortgage Fund II LLC .	CA	NIA	Company	Ownership	100.000	. MMLIC		.
							Cornerstone California Mortgage Fund III LLC			Massachusetts Mutual Life Insurance					
0000			95-4207717					CA	NI A	Company	Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
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	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
			45 0000040							Massachusetts Mutual Life Insurance		400.000			
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Barings LLC	Management		MMLIC		
0000			64 4750507	1	I		Connectors Dermanant Market Cont. 11	MA	NI A	Massachusetts Mutual Life Insurance	O-manahi -	100.000	MMLIC		
0000			61-1750537 61-1750537				Cornerstone Permanent Mortgage Fund II Cornerstone Permanent Mortgage Fund II	MA	NIA NIA	Company Barings LLC	Ownership	100.000	MMLIC		
0000			01-1/0000/				Corner Stone Permanent Mortgage Fund II	MA	NIA	Massachusetts Mutual Life Insurance			WWWLIG		
0000			61-1793735	1	I		Cornerstone Permanent Mortgage Fund IV	MA	NIA	Company	Ownership	100.000	MMLIC		
0000			81-0890084	1			CREA Madison Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
0000			. 01-0030004				WILL MIGUISUII WIGHIDEI LLU	UL		Massachusetts Mutual Life Insurance	Omici sitip	100.000	. mm_10		
0000			20-0348173	1	I		CREA/PPC Venture LLC	DE	NIA	Company	Ownership.	31.300	MMLIC		
							S.E.V. 10 TOILUID LEO			Massachusetts Mutual Life Insurance					
0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NIA	Company	Ownership.	94.400	MMLIC		
							Daniel Contains, ELD			Massachusetts Mutual Life Insurance					
0000			04-1590850				Euro Real Estate Holdings LLC	DE	NIA	Company	Ownership.	50.000	MMLIC		
				1						Massachusetts Mutual Life Insurance					
0000			20-3347091				Fan Pier Development LLC	DE	NIA	Company	Ownership	67.300	MMLIC		
0000			20-3347091				Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	5.900	MMLIC		
			1	1			,		1	Massachusetts Mutual Life Insurance					
0000			04-1590850	.			GIA EU Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
									1	Massachusetts Mutual Life Insurance	1				1
0000			81-5360103	.			Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
				1	I				1	Massachusetts Mutual Life Insurance					
0000			04-1590850	.			MM Brookhaven Member LLC	DE	NIA	Company	Ownership	95.000	. MML1C		.1

					17 1 17	~ - DL I AI	L OF INSURANC	<b>'</b> L I	IOLL	ING COMITAIN I	SISILIVI				
1	2	3	4	5	6	7	8	9	10	11	12 Type	13 If	14	15	16
											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)	*
										Massachusetts Mutual Life Insurance		18.90		(1001110)	$\vdash$
0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		.]
							-			Massachusetts Mutual Life Insurance					] ,
0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	Company	Ownership		MMLIC		
0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		.
0000			00 0040000					DF		Massachusetts Mutual Life Insurance		40.000	MMLIC		] ,
0000			80-0948028 80-0948028				One Harbor Shore LLC	DE	NIA NIA	Company C.M. Life Insurance Company	Ownership	6.000	MMLIC		
			00-0940020				one harbor shore LLC	VE	NIA	Massachusetts Mutual Life Insurance	. Owner Strip	000.2	. MWLIC		
0000			04-1590850				PACO France Logistics LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							209/01/00 220			Massachusetts Mutual Life Insurance					
0000			82-3393166				Portland 400 Sixth Manager LLC	DE	NIA	Company	Ownership	5.000	MMLIC		
							Salomon Brothers Commercial Mortgage Trust								
0000							2001-MM	DE	NIA	Barings Real Estate Advisers LLC	. Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	Company	Ownership	84.200	MMLIC		4
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company Massachusetts Mutual Life Insurance	Ownership	15.800	MMLIC		
0000							STOA Holding LLC	DE	NIA	Company	Ownership	50.000	MMLIC		
0000							STOR HOTUING LLC		NIA	Massachusetts Mutual Life Insurance	Owner Sirrp		. WWLTC		
0000			81-5273574				Three PW Office Holding LLC	DE	NIA	Company	Ownership	95.100	MMLIC		] ,
			0. 02.00				oo o o o o			Massachusetts Mutual Life Insurance					
0000			35-2484550				Twenty Two Liberty LLC	MA MA	NIA	Company	Ownership	35.000	MMLIC		
0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	C.M. Life Insurance Company	Ownership	35.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		· · · · · · · · · · · · · · · · · · ·
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	90.700	MMLIC		
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	4.800	MMLIC		
0000			40-0401109				washington dateway Apartiments venture LLC	DL	NIA	Massachusetts Mutual Life Insurance	Owner strip		, www.io		
0000			51-0529328		0000927972	00	MassMutual Premier Main Street Fund	MA	NIA	Company	Ownership	90.200	MMLIC		J
							MassMutual Premier Strategic Emerging Markets			Massachusetts Mutual Life Insurance					
0000			26-3229251		0000927972	0Q	Fund	MA	NIA	Company	Ownership	3.400	. MMLIC		.
1 1		I			I	l		l		Massachusetts Mutual Life Insurance	1				
0000			01-0821120		0000916053	00	MassMutual Select Diversified Value Fund	MA	NIA	Company	Ownership	0.800	MMLIC		
0000			04-3512593		0000916053	00	MassMutual Select Fundamental Growth Fund	MA	NIA	Massachusetts Mutual Life Insurance	Ownership	2.100	MMLIC		
0000			04-0012093		86001 60000	UQ	massmutuai select fundamentai urowth fund	MA	NIA	Company Massachusetts Mutual Life Insurance	Ownership.	2. 100	, MWLIG		
0000		1	42-1710935		0000916053	00	MassMutual Select Mid-Cap Value Fund	MA	NIA	Company	Ownership.	26,000	MMLIC		
							MassMutual Select Small Capital Value Equity			Massachusetts Mutual Life Insurance					
0000			02-0769954		0000916053	0Q	Fund	MA	NIA	Company	Influence		MMLIC		
		1			I					Massachusetts Mutual Life Insurance					
0000			04-3584140		0000916053	0Q	MassMutual Select Small Company Value Fund	MA	NIA	Company	Ownership	9.600	MMLIC		
0000			00 0047400		0000040056	00	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance		0.400	188.10		
0000			82-3347422		0000916053	UQ	2005 Fund	MA	NIA	Company	Ownership	6.100	MMLIC	[	·····
0000			82-3355639		0000916053	00	MassMutual Select T. Rowe Price Retirement 2010 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence.		MMLIC		
0000			oz-3333039		66000 60000	UV	MassMutual Select T. Rowe Price Retirement	MA	NIA	Massachusetts Mutual Life Insurance	. Intructice		MWILTO		
0000			82-3382389		0000916053	0Q	2015 Fund	MA	NIA	Company	Influence		MMLIC		]
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3396442		0000916053	0Q	2020 Fund	MA	NIA	Company	Influence		MMLIC		ļl
		I			I		MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3417420		0000916053	0Q	2025 Fund	MA	NIA	Company	Influence		MMLIC		.1

1	2	3	1	5	6	7	8	9	10	11	12	13	14	15	16
'	2		7	3		'	0	9	10	11	Type	If		13	10
											of Control	Control			1
											(Ownership,	is		Is an	1 1
						Name of Securities			Relation-		Board.	Owner-		SCA	1
								Dami	ship			-			1
		NIAIO				Exchange	No 6	Domi-	- 1		Management,	ship		Filing	1 1
		NAIC				if Publicly Traded	Names of	ciliary	to	5: " 6 . "	Attorney-in-Fact,	Provide		Re-	1 1
Group	o	Company	, ID	Federal	0114	(U.S. 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	Entity(ies)/Person(s)	(Yes/No)	
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	1				1 1
0000			82-3430358		0000916053	00	2030 Fund	MA	NIA	Company	Influence	<del></del>	MMLIC		
							MassMutual Select T. Rowe Price Retirement	l		Massachusetts Mutual Life Insurance	1				1 1
0000			82-3439837		0000916053	0Q	2035 Fund	MA	NIA	Company	Influence		MMLIC		
0000			82-3451779		0000040000	00	2040 Fund		ALLA		In filesons		MMLIC		1
0000			02-3451/19		0000916053	uu	MassMutual Select T. Rowe Price Retirement	MA	NIA	Company	Influence		MWLIC		
0000		1	82-3472295		0000916053	00	2045 Fund	MA	NIA		Influence.		MMLIC		
			02-34/2290		86001 60000	uu	MassMutual Select T. Rowe Price Retirement	MA	NIA	Company	. Intruence		MWLIC		
0000		1	82-3481715		0000916053	00	2050 Fund	MA	NIA	Company	Influence.		MMLIC		
0000			02-3401/10		56001 60000	υ <b>ν</b>	MassMutual Select T. Rowe Price Retirement	MA	NIA	Massachusetts Mutual Life Insurance	. Intruence		WINLIU		
0000		1	82-3502011		0000916053	00	2055 Fund	MA	NIA	Company	Influence.		MMLIC		
			02-3302011		0000910055	oq	MassMutual Select T. Rowe Price Retirement	MA	NIA	Massachusetts Mutual Life Insurance	. Intruence		MWLIC		
0000			82-3525148		0000916053	00	2060 Fund	MA	NIA	Company	Influence		MMLIC		1 1
			02-0020 140		0000310033	00	MassMutual Select T. Rowe Price Retirement	IN/		Massachusetts Mutual Life Insurance	IIII I delice		MWLIO		
0000			82-3533944		0000916053	00	Balanced Fund	MA	NIA	Company	Influence		MMLIC		1 1
			02-0000044		0000310033	ou	Datanceu i unu	IN/		Massachusetts Mutual Life Insurance	IIII I delice		MWLIO		
0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence.		MMLIC		1 1
			40-4237030				minic Series international Equity runu	IN/		Massachusetts Mutual Life Insurance	I III I ucilice		MWLTO		
0000			47-3517233				MML Series II Asset Momentum Fund	MA	NIA	Company	Ownership.	100.000	MMLIC		1 1
							mine dolloo 11 Nooc monortain Land			Massachusetts Mutual Life Insurance	owner entry.		mile 10		
0000			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Company	Influence		MMLIC		1 1
			0020000				Time Solito II Syriams Solia Faira			Massachusetts Mutual Life Insurance					[]
. 0000			47-3544629				MML Series II Equity Rotation Fund	MA	NIA	Company	Ownership.	95.200	MMLIC		1 1
										Massachusetts Mutual Life Insurance					
			47-3559064				MML Series II Special Situations Fund	MA	NIA	Company	Ownership.	97.100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			27-1933389		0000916053	0Q	MassMutual RetireSMART 2035 Fund	MA	NIA	Company	Ownership	2.500	MMLIC		.[]
		1	1						1	Massachusetts Mutual Life Insurance	·				1
0000			27-1932769		0000916053	00	MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	6.400	MMLIC		
1 1		1	1						1	Massachusetts Mutual Life Insurance					
0000			46-3289207		0000916053	00	MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	24.000	MMLIC		
		1	1						1	Massachusetts Mutual Life Insurance					1
0000			47-5326235		0000916053	00	MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership	52.600	MMLIC		
		I				l.,		1		Massachusetts Mutual Life Insurance	l				1
0000			45-1618155		0000916053	00	MassMutual 20/80 Allocation Fund	MA	NIA	Company	Influence		MMLIC		
		1				l		1		Massachusetts Mutual Life Insurance	l				
0000			45-1618222		0000916053	00	MassMutual 80/20 Allocation Fund	MA	NIA	Company	Influence		MMLIC		
		1						l		Massachusetts Mutual Life Insurance					
0000			03-0532464		0000916053	00	MassMutual RetireSMART In Retirement Fund	MA	NIA	Company	Ownership	2.100	MMLIC		
		1						l		Massachusetts Mutual Life Insurance	l				1
0000			45-1618262		0000916053	00	MassMutual 40/60 Allocation Fund	MA	NIA	Company	Influence		MMLIC		
0000		1	45 4040040		0000040050	00	Harath Arra L CO (40 Allas At 5 A		ALC A	Massachusetts Mutual Life Insurance	Latinana		100		
0000			45-1618046		0000916053	UU	MassMutual 60/40 Allocation Fund	MA	NIA	Company	. Influence		MMLIC		
															1

Asterisk	Explanation
1 Massachuse	tts Mutual Life Insurance Company owns 14.23% of the affiliated debt of Jefferies Finance LLC
2 Debt inves	tors own .6% and includes only Great Lakes III, L.P.
3 Debt inves	tors own 9.6% and includes only Babson Capital Loan Strategies Fund, L.P.
4 Debt inves	tors own .5% and includes only Great Lakes III, L.P.
5 Debt inves	tors own .2% and includes only Great Lakes III, L.P.

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	Asterisk	Explanation
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#### PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES

		PARI 2	- SUMMAF	KY OF INS	DUKEK 3	IKANSAU	M GRIOIT	III ANY A	ALLIF	IA I E 3		
NAIC Company Code	ID Number	3  Names of Insurers and Parent, Subsidiaries or Affiliates	4 Shareholder Dividends	5 Capital Contributions	Purchases, Sales or Exchanges of Loans, Securities, Real Estate, Mortgage Loans or Other Investments	7 Income/ (Disbursements) Incurred in Connection with Guarantees or Undertakings for the Benefit of any Affiliate(s)	8  Management Agreements and Service Contracts	Income/ (Disbursements) Incurred Under Reinsurance Agreements	10	Any Other Material Activity Not in the Ordinary Course of the Insurer's Business	12 Totals	Reinsurance Recoverable/ (Payable) on Losses and/or Reserve Credit Taken/(Liability)
65935	04-1590850	Massachusetts Mutual Life Insurance Company (MMLIC)	1,477,406,409	(2,744,902,053)	20,000,000						(1,247,495,644)	(98,811,453)
93432	06-1041383	C.M. Life Insurance Company	(141, 134, 536)	(2,744,302,636)	20,000,000						(151,632,172)	71,934,015
		MML Bay State Life Insurance Company	(27,000,035)	(10,437,000)							(27,000,035)	10,555,770
	04-1590850	2160 Grand Manager LLC	(21,000,000)	5,384,420							5,384,420	
		Aland Royalty Holdings LP	(402,959)	(259,507)							(662,466)	
		Babson Capital Loan Strategies Fund, L.P.	(402,303)	(203,301)							(002,400)	
	37-1300417	Dabson Capital Loan Strategies Fund, E.I.	(1.730.081)								(1,730,081)	
		Barings Affordable Housing Mortgage Fund I	(1,700,001)								(1,700,001)	
		LLC	(4,281,158)								30,576,835	
	61-1902329	Barings Affordable Housing Mortgage Fund	(4,201, 130)	94,001,990								
	01-1902329	II LLC	(2,314,091)	48,293,619							45,979,528	
	85-3036663	Barings Affordable Housing Mortgage Fund	(2,314,091)	40,293,019							45,979,520	
		III LLC	(702, 122)	4,826,945							4,124,823	
		Barings Asset-Based Income Fund (US) LP	(102, 122)	14,661,673							4, 124, 623	
				34,484							34,001,073	
		Barings California Mortgage Fund IV Barings CLO Investment Partners LP	(11,142,482)	748,242							(10,394,240)	
	84-3/84245	Barings Emerging Generation Fund LP	(4,152,235)	10,923,511							6,771,276	
		Barings European Core Property Fund SCSp	(494,634)	(1,565)							(496, 199)	
		Barings European Private Loan Fund III A		45,276,000							45,276,000	
		Barings European Real Estate Debt Income	(0.000.400)	04 005 005							50 000 000	
	00 0075 475	Fund	(6,233,129)	64,265,365	(00.000.000)						58,032,236	
		Barings Finance LLC			(20,000,000)						(20,000,000)	
		Barings Global Private Loan Fund	(4,325,754)	(23,357,606)							(27,683,360)	
		Barings Global Real Assets Fund LP		10,210,705							10,210,705	
		Barings Global Special Situations Credit										
		Fund 3	(21,248,892)	(3,916,604)							(25, 165, 497)	
		Barings Global Special Situations Credit										
		4 Delaware		13,814,280							13,814,280	
		Barings Global Special Situations Credit										
		4 LUX	(33,481)	13,682,306							13,648,824	
		Barings Hotel Opportunity Venture		7,950,264							7,950,264	
	86-3661023	Barings Innovations & Growth Real Estate										
		Fund	(920, 114)	70,439,770							69,519,656	
	38-4010344	Barings North American Private Loan Fund										
		LP	(1,749,937)	(7,626,660)							(9,376,597)	
		Barings RE Credit Strategies VII LP	(9,522,257)	5,607,140							(3,915,117)	
		Barings Real Estate Debt Income Fund LP	(5,625,555)	90,614,931							84,989,376	
		Barings Real Estate European Value Add I										
		SCSp	(24,704,713)	(11,585,861)							(36,290,575)	
	84-5063008	Barings Small Business Fund LLC		3,723,213							3,723,213	
		Barings Transportation Fund LP		36,369,620							36,369,620	
		Barings Umbrella Fund LUX SCSp SICAV RAIF		, ,							, ,	
				33,438,743							33.438.743	

## 54.1

## **SCHEDULE Y**

#### PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES

		PARI 2 ·	- SUMMAI	RY OF INS	OKEK'S	IRANSAC	CTIONS WI	IIH ANY A	AFFIL	IAIES		
1	2	3	4	5	6	7 Income/	8	9	10	11	12	13
						(Disbursements)						5.
					Purchases, Sales or Exchanges of	Incurred in 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)
	04–1590850	Berkshire Way LLCBraemar Energy Ventures I, L.P.		550,000							550,000	
	06-1041383	CML Mezzanine Investor III, LLC	(830)	122,024							122,024	
	00-1041363	CML Special Situations Investor LLC	(106,025)	(12,237)						-	(210, 155)	
	82-3307907	Cornbrook PRS Holdings LLC	(100,020)	3,448,455							3,448,455	
	95-4207717	Cornerstone California Mortgage Fund I LLC		,170,100							, 170, 100	
	00 12077 17	ormorotone curriorma mortigago rana i EEo	(3,527,026)	(2,419,174)							(5,946,200)	
	95-4207717	Cornerstone California Mortgage Fund II	, , ,	, , ,							, , ,	
		LLC	(2,013,552)	8,925,850							6,912,298	
	95-4207717	Cornerstone California Mortgage Fund III										
		LLC	(878,608)	32,872,906							31,994,298	
	56-2630592	Cornerstone Fort Pierce Development LLC		149,863							149,863	
	45-2632610	Cornerstone Permanent Mortgage Fund	(5,815,415)	76,662							(5,738,753)	
	61-1750537	Cornerstone Permanent Mortgage Fund II	(4,881,964)	(267,286)							(5,149,250)	
	35-2531693	Cornerstone Permanent Mortgage Fund III	(5.400.057)	10 770 014							5 000 450	
	C1 170070E	LLC	(5,439,657)	10,772,814							5 , 333 , 156	
	61–1793735	Cornerstone Permanent Mortgage Fund IV LLC	(3,707,628)	25,628,631							21,921,003	
	46-5432619	Cornerstone Real Estate Fund X LP	(3,707,628)	(565,017)						·	(13,647,553)	
	81-0890084	CREA Madison Member LLC	(10,002,307)	(21,600,000)							(21,600,000)	
	20-0348173	CREA/PPC Venture LLC	1,650,000	(1,650,000)								
	82-2783393	Danville Riverwalk Venture, LLC		650,526							650,526	
		EM Opportunities LLC		375,000							375,000	
	04-1590850	Euro Real Estate Holdings LLC		10,921,066							10,921,066	
	20-3347091	Fan Pier Development LLC	(260,688)								(260,688)	
	90-0991195	Gateway Mezzanine Partners II LP		(9,842,702)							(9,842,702)	
	04-1590850	GIA EU Holdings LLC		12,702,667							12,702,667	
	71-1018134	Great Lakes II LLC	(850,237)	2,395							(847,842)	
	37-1708623	Great Lakes III, L.P. Insurance Road LLC	(1,362,417)	(1,235,265)							(2,597,683)	
	04-1590850 46-2344300	Intermodal Holdings II LLC	(388,769,775)	(22,427,545)							(411, 197, 320)	
	46-2344300 82-1512591	KKR-MM Vector LP	(345,918)	(010,282)							(961,200)(10,596,625)	
	81–5360103	Landmark Manchester Holdings LLC	(10,550,025)	(17,037,155)							(17,037,155)	
	04-2854319	MassMutual Holding LLC	(544,000,000)	63,226,461						· · · · · · · · · · · · · · · · · · ·	(480,773,539)	
	04–3313782	MassMutual International LLC	(044,000,000)	(186,662,868)							(186,662,868)	
	04-1590850	MassMutual Private Equity Funds LLC		75,572,288								
	42-1710935	MassMutual Select Mid-Cap Value Fund	(11,856)	- / - /							(11,856)	
	06-1563535	The MassMutual Trust Company, FSB	(5,000,000)								(5,000,000)	
	04-1590850	Miami Douglas Three MM LLC		17,714,932							17,714,932	
	04-1590850	Miami Douglas Two GP LLC		1,265							1,265	
	04–1590850	Miami Douglas Two LP		12,651,363							12,651,363	
		MM/Barings Multifamily TEBS 2020 LLC		(188,306)							(188,306)	
	87-4021641	MM BIG Peninsula Co-Invest Member LLC		77, 104, 921			ļ				77, 104, 921	
	04-1590850	MM Brookhaven Member LLC		44,893,110							44,893,110	

#### PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES

	PARI 2 - SUMMART OF INSURER'S TRANSACTIONS WITH ANT AFFILIATES											
NAIC Company Code	2 ID Number	3  Names of Insurers and Parent, Subsidiaries or Affiliates	4 Shareholder Dividends	5 Capital Contributions	Purchases, Sales or Exchanges of Loans, Securities, Real Estate, Mortgage Loans or Other Investments	7 Income/ (Disbursements) Incurred in Connection with Guarantees or Undertakings for the Benefit of any Affiliate(s)	Management Agreements and Service Contracts	9  Income/ (Disbursements) Incurred Under Reinsurance Agreements	10	Any Other Material Activity Not in the Ordinary Course of the Insurer's Business	12 Totals	Reinsurance Recoverable/ (Payable) on Losses and/or Reserve Credit Taken/(Liability)
		MM CM Holding LLC		44,613,283							44,613,283	
	04-1590850	MM Copper Hill Road LLC		3,457,471							3,457,471	
	81-3000420	MM Debt Participations LLC		110,000							110,000	
	04-1590850	MM East South Crossing Member LLC		16,223,209							16,223,209	
		MM Global Capabilities   LLC		(224,408)							(224,408)	
		MM Global Capabilities III LLC		199,826							199,826	
		MM Global Capabilities II LLC		199,711							199,711	
	04-1590850	MM Horizon Savannah Member LLC		43,417,838							43,417,838	
		MassMutual MCAM Insurance Company, Inc		15,000,000							15,000,000	
	04-1590850	MM Rothesay Holdco US LLC		1,884,294,587							1,884,294,587	
		MML Investment Advisers, LLC	(90,695,861)	(6)							(90,695,867)	
	04-1590850	MML Mezzanine Investor II, LLC	, , , , ,	(828, 206)							(828,206)	
	04-1590850	MML Mezzanine Investor III, LLC	(23,358)	(93,913)							(117,271)	
	04-1590850	MML Private Equity Fund Investor LLC	(70,277,135)	60,905,908							(9,371,227)	
	47-3517233	MML Series II Asset Momentum Fund	(13,821,144)	, , , , ,							(13,821,144)	
	47-3544629	MML Series II Equity Rotation Fund	(13,915,792)								(13,915,792)	
	47-3559064	MML Series II Special Situations Fund	(9,262,818)								(9,262,818)	
		MML Special Situations Investor LLC	(1,661,064)	(2,352,698)							(4,013,761)	
	04-1590850	New Haven Holdco LLC	(1,001,001,	76,938,243							76,938,243	
	85-3886824	NYDIG Digital Assets Fund II LP		2,415,693							2,415,693	
	80-0948028	One Harbor Shore LLC		513,000							513,000	
	04-1590850	PACO France Logistices LLC		(545, 135)							(545, 135)	
	82-3393166	Portland 400 Sixth Manager LLC		5,605,000							5.605.000	
	46-5460309	Red Lake Ventures, LLC		28,364	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					28,364	
	81-4065378	Remington L & W Holdings LLC	(497,277)	(1,034,336)							(1,531,613)	
		Rothesay Life Pic		(1,004,000)							(1,001,010)	16,321,668
	27-2977720	Sawgrass Village Shopping Center LLC	(1.629.133)	(1,345,867)						• • • • • • • • • • • • • • • • • • • •	(2.975.000)	10,021,000
		STOA Holding LLC	(1,020,100)	(2,279,679)							(2,279,679)	
		Tamiami Citurus, LLC		607, 107								
	81–5273574	Three PW Office Holding LLC		4,046,308							4,046,308	
	47-5322979	Timberland Forest Holding LLC		(477,755)						+	(477.755)	
	41-2280129	Tower Square Capital Partners IIIA, L.P	(14,282,993)	3,417,005							(10,865,988)	
	35-2484550	Twenty Two Liberty LLC	(780,000)								(780,000)	
	82-3250684	Unna, Dortmund Holding LLC	(100,000)	(1,069,321)						†	(1.069.321)	
	45-5401109	Washington Gateway Apartments Venture LLC	(3,840,910)								(3,840,910)	
	32-0574045	Washington Gateway Three LLC		1, 169, 210							1,169,210	
	83-1325764	Washington Gateway Two LLC		377.598							377.598	
9999999 Cc									XXX			
					i	i	i .	i .	/V//	i l		

#### **SCHEDULE Y**

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

I AIXI O OLI III AIL OOI II IXOL			0.00	E GITGGI G GIT EITHILE GITEET	THAT DETIMATE CONTINUE LINE I	/ · · · · · · · · · · · · · · · · ·	
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
Great American 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	Great American 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

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.

questioi	is.	Responses
	MARCH FILING	
1.	Will the Supplemental Compensation Exhibit be filed with the state of domicile by March 1?	YES
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.	Will an actuarial opinion be filed by March 1?	YES
_	APRIL FILING	VEC
5.	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
	JUNE FILING	
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
suppler specific	owing supplemental reports are required to be filed as part of your annual statement filing <u>if your company is engaged in the type of busines</u> nent. However, in the event that your company does not transact the type of business for which the special report must be filed, your respect 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 whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.	onse of NO to the
	MARCH FILING	
10.	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?	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.	Will the actuarial opinion required by the Modified Guaranteed Annuity Model Re NAIC by March 1?		0
27.	Will the Actuarial Certification regarding the use of 2001 Preferred Class Tables Preferred Mortality Tables for Use in Determining Minimum Reserve Liabilities b	required by the Model Regulation Permitting the Recognition of e filed with the state of domicile and electronically with the NAIC by	
28.	March 1?		
29.	Will Supplemental Schedule O be filed with the state of domicile and the NAIC b	,	
30.	Will the Medicare Part D Coverage Supplement be filed with the state of domicil		
31.	Will an approval from the reporting entity's state of domicile for relief related to the		•
·	electronically with the NAIC by March 1?		0
32.	Will an approval from the reporting entity's state of domicile for relief related to the electronically with the NAIC by March 1?		0
33.	Will an approval from the reporting entity's state of domicile for relief related to the NAIC by March 1?		0
34.	Will the VM-20 Reserves Supplement be filed with the state of domicile and the $$	NAIC by March 1? N	0
35.	Will the Health Care Receivables Supplement be filed with the state of domicile	and the NAIC by March 1?	0
	APRIL FILI	NG	
36.	Will the confidential Regulatory Asset Adequacy Issues Summary (RAAIS) requi		
	April 1?		
37.	Will the Long-Term Care Experience Reporting Forms be filed with the state of c		
38.	Will the Credit Insurance Experience Exhibit be filed with the state of domicile ar		
39.	Will the Accident and Health Policy Experience Exhibit be filed by April 1?		
40.	Will the Supplemental Health Care Exhibit (Parts 1, 2 and 3) be filed with the sta	• •	0
41.	Will the regulator only (non-public) Supplemental Health Care Exhibit's Expense		-0
40	April 1?		
42.	Will the confidential Actuarial Memorandum required by Actuarial Guideline XXX	, ·	
43.	Will the Supplemental Term and Universal Life Insurance Reinsurance Exhibit b	• •	
44.	Will the Variable Annuities Supplement be filed with the state of domicile and the	, ·	
45.	Will the confidential Executive Summary of the PBR Actuarial Report be filed with	, ·	
46.	Will the confidential Life Summary of the PBR Actuarial Report be filed with the		
47.	Will the confidential Variable Annuities Summary of the PBR Actuarial Report be		0
	AUGUST FIL		
48.	Will Management's Report of Internal Control Over Financial Reporting be filed v Explanations:	with the state of domicile by August 1? N	0
10.	Not Required		
11.	This line of business is not written by the company.		
12. 13.	Not Required Not Required		
15.	Not Required		
16.	Not Required		
17. 18.	Not Required Not Required		
19.	Not Required		
20.	Not Required		
21. 22.	Not Required Not Required		
25.	Not Required		
26. 27.	Not Required Not Required		
28.	This line of business is not written by the company.		
29.	This line of business is not written by the company.		
30. 31.	This line of business is not written by the company.  Not Required		
32.	Not Required		
33.	Not Required		
34. 35.	c This line of business is not written by the company.		
37.	This line of business is not written by the company.		
38.	Not Required		
39. 40.	This line of business is not written by the company.  This line of business is not written by the company.		
42.	Not Required		
43. 45.	Not Required This line of business is not written by the company.		
45. 46.	This line of business is not written by the company.  This line of business is not written by the company.		
47.	This line of business is not written by the company.		
48.	Not Required		
10.	Bar Codes: SIS Stockholder Information Supplement [Document Identifier 420]		
11.	Medicare Supplement Insurance Experience Exhibit [Document Identifier 360]		
12.	Trusteed Surplus Statement [Document Identifier 490]		



Reasonableness of Assumptions Certification required by Actuarial Guideline

Actuarial Opinion on Synthetic Guaranteed Investment Contracts

13. Participating Opinion for Exhibit 5 [Document Identifier 371]

Actuarial Opinion on X-Factors [Document Identifier 442]

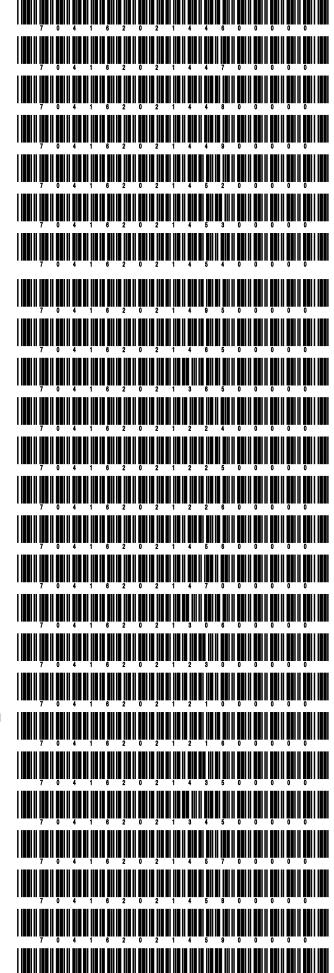
XXXV [Document Identifier 445]

16.

18.

#### SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]
- 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]
- 22. 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]
- 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 470]
- 37. Long-Term Care Experience Reporting Forms [Document Identifier 306]
- 38. Credit Insurance Experience Exhibit [Document Identifier 230]
- 39. Accident and Health Policy Experience Exhibit [Document Identifier 210]
- 40. Supplemental Health Care Exhibit (Parts 1, 2 and 3) [Document Identifier 216]
- 42. Actuarial Memorandum Required by Actuarial Guideline XXXVIII 8D [Document Identifier 435]
- Supplemental Term and Universal Life Insurance Reinsurance Exhibit [Document Identifier 345]
- 45. Executive Summary of the PBR Actuarial Report [Document Identifier 457]
- 46. Life Summary of the PBR Actuarial Report [Document Identifier 458]
- 47. Variable Annuities Summary of the PBR Actuarial Report [Document Identifier 459]
- 48. Management's Report of Internal Control Over Financial Reporting [Document Identifier 223]



# NONE

#### **SUMMARY INVESTMENT SCHEDULE**

		Gross Investm	ent Holdinas	Admitted Assets as Reported in the Annual Statement			
		1	2	3	4	5	6
			Percentage of		Securities Lending Reinvested	Total	Percentage of
	Investment Categories	Amount	Column 1 Line 13	Amount	Collateral Amount	(Col. 3 + 4) Amount	Column 5 Line 13
1.	Long-Term Bonds (Schedule D, Part 1):						
	1.01 U.S. governments	4,444,612	1.028	4,444,612		4,444,612	1.028
	1.02 All other governments						0.000
	1.03 U.S. states, territories and possessions, etc. guaranteed						0.00
	1.04 U.S. political subdivisions of states, territories, and possessions, guaranteed						0.000
	1.05 U.S. special revenue and special assessment obligations, etc. non-guaranteed			29,260		29,260	0.007
	1.06 Industrial and miscellaneous	213,262,249	49.334	213,262,249		213,262,249	49.334
	1.07 Hybrid securities		0.000				0.000
	1.08 Parent, subsidiaries and affiliates	992 , 122	0.230	992,122		992,122	0.230
	1.09 SVO identified funds		0.000				0.00
	1.10 Unaffiliated Bank loans		0.000				0.000
	1.11 Total long-term bonds	218,728,243	50.599	218,728,243		218,728,243	50.599
2.	Preferred stocks (Schedule D, Part 2, Section 1):						
	2.01 Industrial and miscellaneous (Unaffiliated)		0.000				0.000
	2.02 Parent, subsidiaries and affiliates						0.000
	2.03 Total preferred stocks						.0.000
3.	Common stocks (Schedule D, Part 2, Section 2):						
0.	3.01 Industrial and miscellaneous Publicly traded (Unaffiliated)	12 060	0.003	12 060		12,060	0.003
	3.02 Industrial and miscellaneous Publicly traded (Orialiniated)			,		12,000	0.000
	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		0.000				0.00
	3.08 Total common stocks	12,060	0.003	12,060		12,060	0.003
4.	Mortgage loans (Schedule B):						
	4.01 Farm mortgages						
	4.02 Residential mortgages	1,771,148		1,771,148		1,771,148	
	4.03 Commercial mortgages		0.000				0.000
	4.04 Mezzanine real estate loans		0.000				0.000
	4.05 Total valuation allowance		0.000				0.000
	4.06 Total mortgage loans	1,771,148	0.410	1,771,148		1,771,148	0.410
5.	Real estate (Schedule A):						
	5.01 Properties occupied by company		0.000				0.000
	5.02 Properties held for production of income		0.000				0.000
	5.03 Properties held for sale		0.000				0.000
	5.04 Total real estate		0.000				0.00
6.	Cash, cash equivalents and short-term investments:						
	6.01 Cash (Schedule E, Part 1)	7,111,307	1.645	7,111,307		7, 111, 307	1.645
	6.02 Cash equivalents (Schedule E, Part 2)	107,988,780	24.981	107,988,780		107,988,780	24.981
	6.03 Short-term investments (Schedule DA)		1.388	5,999,418		5,999,418	1.388
	6.04 Total cash, cash equivalents and short-term investments		28.014	121,099,505		121,099,505	28.014
7.	Contract loans		20.975	90,670,570		90,670,570	20.975
8.	Derivatives (Schedule DB)		0.000	, , , , , , ,			0.000
9.	Other invested assets (Schedule BA)		0.000				0.000
10.	Receivables for securities		0.000				0.000
11.	Securities Lending (Schedule DL, Part 1)		0.000		XXX	XXX	XXX
12.			0.000				0.000
1/	Other invested assets (Page 2, Line 11)	-	0.000				0.000

#### **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,
6.	Total foreign exchange change in book/adjusted cary was:
	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	2,090,393
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)	735
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	(6,782)
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	311,249
8.	Deduct amortization of premium and mortgage interest points and commitment fees	1,949
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)	1,771,148
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	1,771,148
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	1,771,148

#### **SCHEDULE BA - VERIFICATION BETWEEN YEARS**

Other Long-Term Invested Assets

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 8)
	2.2 Additional investment made after acquisition (Part 2, Column 9)
3.	Capitalized deferred interest and other:
	3.1 Totals, Part 1, Column 16
	3.2 Totals, Part 3, Column 12
4.	Accrual of discount
5.	Unrealized valuation increase (decrease):
	5.1 Totals, Part 1, Column 13
	5.1 Totals, Part 1, Column 13
6.	Total gain (loss) on disposals, Part 3, Column 19
7.	Deduct amounts received on disposals, Part 3, Cordmn 16
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)
12.	Deduct total nonadmitted amounts
13.	Statement value at end of current period (Line 11 minus Line 12)

## **SCHEDULE D - VERIFICATION BETWEEN YEARS**

Bonds and Stocks

1.	Book/adjusted carrying value, December 31 of prior year	243,446,731
2.	Cost of bonds and stocks acquired, Part 3, Column 7	7,438,555
3.	Accrual of discount	513,258
4.	Unrealized valuation increase (decrease):	
	4.1. Part 1, Column 12	
	4.2. Part 2, Section 1, Column 15	
	4.3. Part 2, Section 2, Column 13	
	4.4. Part 4, Column 11	24,932
5.	Total gain (loss) on disposals, Part 4, Column 19	1, 106, 259
6.	Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	33,487,123
7.	Deduct amortization of premium	293,028
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	11,926
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees, Note 5Q, Line 2	2,645
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	218,740,303
12.	Deduct total nonadmitted amounts	
13.	Statement value at end of current period (Line 11 minus Line 12)	

#### **SCHEDULE D - SUMMARY BY COUNTRY**

Long-Term Bonds and Stocks OWNED December 31 of Current Year

		. J	1 Book/Adjusted	2	3	4
D	escripti	on	Carrying Value	Fair Value	Actual Cost	Par Value of Bonds
BONDS	1.	United States	4,444,612	4 , 427 , 099	4,443,413	4,446,848
Governments	2.	Canada				
(Including all obligations guaranteed	3.	Other Countries				
by governments)	4.	Totals	4,444,612	4,427,099	4,443,413	4,446,848
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			90.555	00.6:7	00.100	
their Political Subdivisions	7.	Totals	29,260	33,217	30,490	28,834
Industrial and Miscellaneous, SVO	8.	United States		205,365,306	193,595,194	194,640,062
Identified Funds, Unaffiliated Bank	9.	Canada	, ,		4,301,718	4,320,000
Loans and Hybrid Securities	10.	Other Countries	12,943,675	14,268,776	12,902,521	13,420,000
(unaffiliated)	11.	Totals	213,262,249	224,277,131	210,799,433	212,380,062
Parent, Subsidiaries and Affiliates	12.	Totals	992,122	990,891	991,990	1,000,000
	13.	Total Bonds	218,728,243	229,728,338	216,265,326	217,855,744
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	12,060	12,060	4,641	
Industrial and Miscellaneous	21.	Canada				
(unaffiliated)	22.	Other Countries				
	23.	Totals	12,060	12,060	4,641	
Parent, Subsidiaries and Affiliates	24.	Totals		·	,	
	25.	Total Common Stocks	12,060	12,060	4,641	
	26.	Total Stocks	12,060	12,060	4,641	
	27.	Total Bonds and Stocks	218,740,303	229,740,398	216,269,967	

SCHEDULE D - PART 1A - SECTION 1

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 Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations												
NAIC Designation	1 1 Year or Less	2 Over 1 Year Through 5 Years	3 Over 5 Years Through 10 Years	4 Over 10 Years Through 20 Years	5 Over 20 Years	6 No Maturity Date	7 Total Current Year	8 Col. 7 as a % of Line 11.7	9 Total from Col. 7 Prior Year	10 % From Col. 8 Prior Year	11 Total Publicly Traded	12 Total Privately Placed (a)
1. U.S. Governments												
1.1 NAIC 1	697	4,443,915				XXX	4,444,612	1.3	4,504,992	1.3	4,444,612	
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	697	4,443,915				XXX	4,444,612	1.3	4,504,992	1.3	4.444.612	
2. All Other Governments	-	, .,					, ,	-	, , , , , , ,	-	, ,	
2.1 NAIC 1						XXX						
2.2 NAIC 2						XXX						
2.3 NAIC 3						XXX						
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.,						7000						
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						7000						
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						1
Obligations, etc., Non-Guaranteed												
5.1 NAIC 1	6.371	16.839	6.051	[		XXX	29.261	0.0	35.264	0.0	29.261	
5.2 NAIC 2	, , , ,		, , , , , , , , , , , , , , , , , , , ,			XXX			,,			
5.3 NAIC 3						XXX						
5.4 NAIC 4						XXX						
5.5 NAIC 5	•					XXX						
5.6 NAIC 6						XXX						
5.7 Totals	6.371	16.839	6.051			XXX	29.261	0.0	35.264	0.0	29.261	

#### ANNUAL STATEMENT FOR THE YEAR 2021 OF THE MML Bay State Life Insurance Company

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

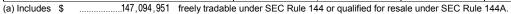
Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC 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	Over 10 Years Through 20 Years	Over 20 Years	No Maturity Date	Total Current Year	Col. 7 as a % of Line 11.7	Total from Col. 7 Prior Year	% From Col. 8 Prior Year	Total Publicly Traded	Total Privately Placed (a)
6. Industrial & Miscellaneous (Unaffiliated)	1 Tour or Loss	Through o Tears	Through to Tears	Through 20 Tours	OVCI ZO TCCIS	Date	Total Callent Teal	LIIIC 11.7	T HOL T COL	T HOL T COL	Traded	Tidoca (a)
6.1 NAIC 1	16,585,170	82,884,843	40,235,685	1,353,662	1,517,827	XXX	142,577,187	42.9	196,734,964	56.4	112,355,281	30,221,906
6.2 NAIC 2	100,818,306	38,266,822	33.832.250	1,573,263	999.594	XXX	175 . 490 . 235	52.7	121.327.818	34.8	61.383.261	114,106,974
6.3 NAIC 3	21.804	2,631,090	3.861.627	144	,000,004	XXX	6,514,665	2.0	20,054,570	5.7	6,428,065	86,600
6.4 NAIC 4	21,004	1.230.831				XXX	1,230,831	0.4	5.147.267	1.5	833,677	397,154
6.5 NAIC 5	6.398	483,458	7.337	2.428		XXX	499.621	0.2		0.1	31.343	468,278
6.6 NAIC 6	0,000	746,832	, ,001		191,076	XXX	937,908	0.3	697,083	0.2		937,908
6.7 Totals	117,431,678	126,243,876	77,936,899	2,929,497	2,708,497	XXX	327,250,447	98.4	344,454,232	98.7	181,031,627	146,218,820
7. Hybrid Securities	117,401,070	120,240,070	11,300,033	2,323,431	2,700,437	^^^	321,230,441	30.4	044,404,202	30.1	101,001,021	140,210,020
7.1 NAIC 1						xxx						
7.1 NAIC 1						XXX						
7.3 NAIC 3						XXX						
7.4 NAIC 4						XXX						
7.5 NAIC 5						XXX						
7.6 NAIC 6						XXX						
7.7 Totals						XXX						
8. Parent, Subsidiaries and Affiliates						^^^						
8.1 NAIC 1						xxx						
8.2 NAIC 2		992.122				XXX	992.122	0.3				992.122
8.3 NAIC 3						XXX	552, 122					
8.4 NAIC 4						XXX						
8.5 NAIC 5						XXX						
8.6 NAIC 6						XXX						
8.7 Totals		992,122				XXX	992,122	0.3				992,122
9. SVO Identified Funds		00E, 12E				7000	002,122	0.0				002,122
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	7000	7000	7000	7000	7000							
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						
10.1 10(a)3	1					^^^	l				1	

#### 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 Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC 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 Date	Total Current Year	Col. 7 as a % of Line 11.7	Total from Col. 7 Prior Year	% From Col. 8 Prior Year	Total Publicly Traded	Total Privately Placed (a)
11. Total Bonds Current Year	i fear or Less	Through 5 rears	Through to Years	Through 20 Years	Over 20 Years	Date	Total Current Year	Line 11.7	Phor rear	Phor rear	rraded	Placed (a)
	(d)16.592.238	87.345.597	40.241.736	1.353.662	1.517.827		147.051.060	44.2	2007	2007	116.829.154	30.221.906
11.1 NAIC 1									XXX	XXX		
11.2 NAIC 2	(d)100,818,306	39,258,944	33,832,250	1,573,263	999,594		176,482,357	53.0		XXX	61,383,261	115,099,096
11.3 NAIC 3	(d)21,804	2,631,090	3,861,627	144			6,514,665	2.0	XXX	XXX	6,428,065	86,600
11.4 NAIC 4	(d)	1,230,831					1,230,831	0.4	XXX	XXX	833,677	397 , 154
11.5 NAIC 5	(d)6,398	483,458	7,337	2,428			(c)499,621	0.2	XXX	XXX	31,343	468,278
11.6 NAIC 6	(d)	746,832			191,076		(c) 937,908	0.3	XXX	XXX		937,908
11.7 Totals	117,438,746	131,696,752	77,942,950	2,929,497	2,708,497		(b)332,716,442	100.0	XXX	XXX	185,505,500	147,210,942
11.8 Line 11.7 as a % of Col. 7	35.3	39.6	23.4	0.9	0.8		100.0	XXX	XXX	XXX	55.8	44.2
12. Total Bonds Prior Year												
12.1 NAIC 1		44,259,096	72,332,246	1,673,324	1,531,924		XXX	XXX	201,275,220	57.7	111,766,663	89,508,557
12.2 NAIC 2		34,349,725		1,248,819	999,589		XXX	XXX	121,327,818	34.8	72,170,689	49, 157, 129
12.3 NAIC 3	121,065	5,386,695	14,546,810				XXX	XXX	20,054,570	5.7	19,948,458	106,112
12.4 NAIC 4	,	1,097,347	4.049.920				XXX	XXX	5,147,267	1.5	4,752,078	395, 189
12.5 NAIC 5	26.675	465,855	, ,,				XXX	XXX	(c)492,530	0.1	, ,	492,530
12.6 NAIC 6	,	460,626			236,457		XXX	XXX	(c) 697,083	0.2	4,594	692,489
12.7 Totals	117,789,116	86,019,344	139,495,915	2,922,143	2,767,970		XXX	XXX	(b)348,994,488	100.0	208,642,482	140,352,006
12.8 Line 12.7 as a % of Col. 9	33.8	24.6	40.0	0.8	0.8		XXX	XXX	100.0	XXX	59.8	
13. Total Publicly Traded Bonds							7001	7001		7001		
13.1 NAIC 1	198.888	81,374,838	33.175.006	1,087,482	992.940		116,829,154	35.1	111.766.663	32.0	116,829,154	xxx
13.2 NAIC 2	2,730,777	31.270.353	25.232.025	1,150,513	999.594		61.383.262	18.4	72.170.689	20.7	61.383.262	XXX
13.3 NAIC 3	1.532	2,579,848	3.846.541	144			6,428,065	1.9	19.948.458	5.7	6,428,065	XXX
13.4 NAIC 4		833,678	,040,041	177			833.678	0.3	4,752,078	1.4	833,678	XXX
13.5 NAIC 5	6,398	15,179	7,337	2,428			31,342	0.0			31,342	XXX
13.6 NAIC 6		13, 179		2,420				J	4,594	0.0		
	2,937,595	116,073,896	62,260,909	2.240.567	1 000 504		105 505 501	55.8		59.8		XXX
13.7 Totals				, , ,	1,992,534		185,505,501					XXX
13.8 Line 13.7 as a % of Col. 7	1.6	62.6	33.6	1.2	1.1		100.0	XXX	XXX	XXX	100.0	XXX
13.9 Line 13.7 as a % of Line 11.7, Col. 7,	0.9	34.9	18.7	0.7	0.6		55.8	xxx	XXX	XXX	55.8	xxx
Section 11 14. Total Privately Placed Bonds	0.9	34.9	10.1	0.7	0.0		33.6	^^^	^^^	^^^	33.6	^^^
,	16.393.350	5.970.759	7.066.730	266 . 180	524.887		30.221.906	9.1	89.508.557	25.6	XXX	30,221,906
14.1 NAIC 1	98,087,529	7.988.591	8.600.225	422.750	324,887		115.099.095	34.6	49.157.129	∠ɔ.ɒ 14.1	XXX	115,099,095
14.2 NAIC 2			, , .	422,750								
14.3 NAIC 3	20,272	51,242	15,086				86,600	0.0	106,112	0.0		86,600
14.4 NAIC 4		397, 153					397, 153	0.1	395,189	0.1	XXX	397, 153
14.5 NAIC 5		468,279					468,279	0.1	492,530	0.1	XXX	468,279
14.6 NAIC 6		746,832			191,076		937,908	0.3	692,489	0.2		937,908
14.7 Totals	114,501,151	15,622,856	15,682,041	688,930	715,963		147,210,941	44.2	140,352,006	40.2		147,210,941
14.8 Line 14.7 as a % of Col. 7	77.8	10.6	10.7	0.5	0.5		100.0	XXX	XXX	XXX	XXX	100.0
14.9 Line 14.7 as a % of Line 11.7, Col. 7, Section 11	34.4	4.7	4.7	0.2	0.2		44.2	XXX	XXX	XXX	XXX	44.2



## ANNUAL STATEMENT FOR THE YEAR 2021 OF THE MML Bay State Life Insurance Company SCHEDULE D - PART 1A - SECTION 2

Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Type and Subtype of Issues												
	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	<b>Total Current Year</b>	Line 11.08	Prior Year	Prior Year	Traded	Placed
1. U.S. Governments		-		_								
1.01 Issuer Obligations		4,442,770				XXX	4,442,770	1.3	4,502,145	1.3	4,442,770	
1.02 Residential Mortgage-Backed Securities	697	1, 145				XXX	1,842	0.0	2,847	0.0	1,842	
1.03 Commercial Mortgage-Backed Securities						XXX						
1.04 Other Loan-Backed and Structured Securities						XXX						
1.05 Totals	697	4,443,915				XXX	4,444,612	1.3	4,504,992	1.3	4,444,612	
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						***						
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						
4. 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						XXX						
4.05 Totals						XXX						
5. U.S. Special Revenue & Special Assessment Obligations												
etc., Non-Guaranteed												
5.01 Issuer Obligations						XXX						
5.02 Residential Mortgage-Backed Securities	6,371	16,839	6,051			XXX	29,261	0.0	35,264	0.0	29,261	
5.03 Commercial Mortgage-Backed Securities						XXX						
5.04 Other Loan-Backed and Structured Securities						XXX						
5.05 Totals	6,371	16,839	6,051			XXX	29,261	0.0	35,264	0.0	29,261	
Industrial and Miscellaneous												
6.01 Issuer Obligations	116,765,039	60,872,152	66,784,273	1,991,637	1,992,533	XXX	248,405,634	74.7	246,342,555	70.6	113,465,879	134,939,755
6.02 Residential Mortgage-Backed Securities	236,253	590,321	386,732	352,767	206,632	XXX	1,772,705	0.5	934,335	0.3	720,303	1,052,402
6.03 Commercial Mortgage-Backed Securities		61, 105, 420	7,968,171			XXX	69,073,591	20.8		24.7	66,012,837	3,060,754
6.04 Other Loan-Backed and Structured Securities	430,386	3,675,983	2,797,723	585,093	509,332	XXX	7,998,517	2.4	10,802,243	3.1	832,609	7,165,908
6.05 Totals	117,431,678	126,243,876	77,936,899	2,929,497	2,708,497	XXX	327,250,447	98.4	344,454,232	98.7	181,031,628	146,218,819
7. Hybrid Securities												
7.01 Issuer Obligations						XXX						
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						XXX						
8. Parent, Subsidiaries and Affiliates												
8.01 Issuer Obligations		992, 122				VVV		0.3				
8.02 Residential Mortgage-Backed Securities		992, 122				XXX	992, 122					992, 122
8.03 Commercial Mortgage-Backed Securities						XXX						
						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		992, 122				XXX	992, 122	0.3				992, 122

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

Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Type and Subtype of Issues												
	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 11.08	Prior Year	Prior Year	Traded	Placed
9. SVO Identified Funds												
9.01 Exchange Traded Funds Identified by the SVO	XXX	XXX	XXX	XXX	XXX							
10. Unaffiliated Bank Loans												
10.01 Unaffiliated Bank Loans - Issued						XXX						
10.02 Unaffiliated Bank Loans - Acquired						XXX						
10.03 Totals						XXX						
11. Total Bonds Current Year												
11.01 Issuer Obligations	116,765,039	66,307,044	66,784,273	1,991,637	1,992,533	XXX	253,840,526	76.3	XXX	XXX	117,908,649	135,931,877
11.02 Residential Mortgage-Backed Securities	243,321	608,305	392,783	352,767	206,632	XXX	1,803,808	0.5	XXX	XXX	751,406	1,052,402
11.03 Commercial Mortgage-Backed Securities		61, 105, 420	7,968,171			XXX	69,073,591	20.8	XXX	XXX	66,012,837	3,060,754
11.04 Other Loan-Backed and Structured Securities	430,386	3,675,983	2,797,723	585,093	509,332	XXX	7,998,517	2.4	XXX	XXX	832,609	7, 165, 908
11.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX				XXX	XXX		
11.06 Affiliated Bank Loans						XXX			XXX	XXX		
11.07 Unaffiliated Bank Loans						XXX			XXX	XXX		
11.08 Totals	117,438,746	131,696,752	77,942,950	2,929,497	2,708,497		332,716,442	100.0	XXX	XXX	185,505,501	147,210,941
11.09 Line 11.08 as a % of Col. 7	35.3	39.6	23.4	0.9	0.8		100.0	XXX	XXX	XXX	55.8	44.2
12. Total Bonds Prior Year												
12.01 Issuer Obligations	110,578,471	49,354,126	86,916,258	1,998,862	1,996,983	XXX	XXX	XXX	250,844,700	71.9	128 , 134 , 122	122,710,578
12.02 Residential Mortgage-Backed Securities	201,834	459,226	214, 184	97.065	137	XXX	XXX	XXX		0.3	906,829	65,617
12.03 Commercial Mortgage-Backed Securities	6, 161, 584	31,689,827	48,523,688	,		XXX	XXX	XXX	86,375,099	24.7	78,685,947	7,689,152
12.04 Other Loan-Backed and Structured Securities	847,228	4,516,164	3,841,785	826,216	770,850	XXX	XXX	XXX	10,802,243	3.1	915,584	9,886,659
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				
12.08 Totals	117,789,117	86,019,343	139,495,915	2,922,143	2,767,970		XXX	XXX	348,994,488	100.0	208,642,482	140,352,006
12.09 Line 12.08 as a % of Col. 9	33.8	24.6	40.0	0.8	0.8		XXX	XXX	100.0	XXX	59.8	40.2
13. Total Publicly Traded Bonds												
13.01 Issuer Obligations	2.703.706	57.344.999	53.875.774	1.991.637	1.992.533	XXX	117.908.649	35.4	128 . 134 . 122	36.7	117.908.649	XXX
13.02 Residential Mortgage-Backed Securities	134,238	358,511	172,070	86.587	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XXX	751,406	0.2		0.3	751,406	XXX
13.03 Commercial Mortgage-Backed Securities	, =	58,044,665	7,968,171	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		XXX		19.8	78,685,947	22.5	66,012,836	XXX
13.04 Other Loan-Backed and Structured Securities	99.651	325,721	244,895	162,343		XXX	832,610	0.3	915,584	0.3	832,610	XXX
13.05 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX		,				,	XXX
13.06 Affiliated Bank Loans						XXX						XXX
13.07 Unaffiliated Bank Loans						XXX						XXX
13.08 Totals	2,937,595	116,073,896	62,260,910	2,240,567	1,992,533		185,505,501	55.8	208,642,482	59.8	185,505,501	XXX
13.09 Line 13.08 as a % of Col. 7	1.6	62.6	33.6	1.2	1.1		100.0	XXX	XXX	XXX	100.0	XXX
13.10 Line 13.08 as a % of Line 11.08, Col. 7,												
Section 11	0.9	34.9	18.7	0.7	0.6		55.8	XXX	XXX	XXX	55.8	XXX
14. Total Privately Placed Bonds								<del></del>				
14.01 Issuer Obligations	114,061,333	8,962,045				XXX	135,931,877	40.9	122,710,578	35.2	XXX	135,931,877
14.02 Residential Mortgage-Backed Securities	109,083	249,794	220,713	266, 180	206,632	XXX	1,052,402	0.3	65,617	0.0	XXX	1,052,402
14.03 Commercial Mortgage-Backed Securities		3,060,755				XXX	3,060,755	0.9	7,689,152	2.2	XXX	3,060,755
14.04 Other Loan-Backed and Structured Securities	330,735	3,350,262	2,552,828	422,750	509,332	XXX	7, 165, 907	2.2	9,886,659	2.8		7, 165, 907
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 Totals	114,501,151	15,622,856	15,682,040	688,930	715,964		147,210,941	44.2	140,352,006	40.2	XXX	147,210,941
14.09 Line 14.08 as a % of Col. 7	77.8	10.6	10.7	0.5	0.5		100.0	XXX	XXX	XXX	XXX	100.0
14.10 Line 14.08 as a % of Line 11.08, Col. 7,												
Section 11	34.4	4.7	4.7	0.2	0.2		44.2	XXX	XXX	XXX	XXX	44.2

#### **SCHEDULE DA - VERIFICATION BETWEEN YEARS**

Short-Term Investments

Short-reminives:	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	56,062,226	56,062,226			
Cost of short-term investments acquired	106,423,200	106,423,200			
Accrual of discount	112,551	112,551			
Unrealized valuation increase (decrease)					
5. Total gain (loss) on disposals	408	408			
Deduct consideration received on disposals	156,598,967	156,598,967			
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)		5,999,418			
11. Deduct total nonadmitted amounts					
12. Statement value at end of current period (Line 10 minus Line 11)	5,999,418	5,999,418			

<sup>(</sup>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 4 Money Market Total Other (a) Bonds Mutual funds 1. Book/adjusted carrying value, December 31 of prior year ..49,485,532 .49,485,532 .1,333,369,363 .1.333.369.363 2. Cost of cash equivalents acquired ... ...132,828 .132,828 3. Accrual of discount .... Unrealized valuation increase (decrease) 150 150 5. Total gain (loss) on disposals ...1,274,999,093 ...1,274,999,093 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-.107,988,780 .107,988,780 7+8-9) 11. Deduct total nonadmitted amounts . 107,988,780 107,988,780 Statement value at end of current period (Line 10 minus Line 11)

 $<sup>\</sup>hbox{(a) Indicate the category of such investments, for example, joint ventures, transportation equipment:}\\$