

#### **ANNUAL STATEMENT**

FOR THE YEAR ENDED DECEMBER 31, 2016 OF THE CONDITION AND AFFAIRS OF THE SEPARATE ACCOUNTS OF THE

MML Bay State Life Insurance Company

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

Organized under the Laws of	(Current) ( Conne	Prior)	, State of Domicile or Port of	Entry CT
_	Conne			
Country of Domicile			States of America	
Type of Separate Accounts Inst	ulated [ X ] Non-Ir	sulated [ ]		
Incorporated/Organized	04/01/1935		_ Commenced Business	07/01/1894
Statutory Home Office	100 Bright Meadow			Enfield , CT, US 06082
	(Street and Nu	mber)	(City	or Town, State, Country and Zip Code)
Main Administrative Office			95 State Street eet and Number)	
	ngfield , MA, US 01111	· ·		413-788-8411
(City or Town	n, State, Country and Zip C	ode)		(Area Code) (Telephone Number)
Mail Address	1295 State Street (Street and Number or P.		,(Citv	Springfield , MA, US 01111 or Town, State, Country and Zip Code)
Drimow I coation of Dools and Doo		,	, ,	or rown, state, sound y and 2.p south
Primary Location of Books and Rec	ords		95 State Street eet and Number)	
	ngfield , MA, US 01111 n, State, Country and Zip C	ode)		413-788-8411 (Area Code) (Telephone Number)
, ,	i, State, Country and Zip C	,		(Area Gode) (Telephone Number)
Internet Website Address		www.	massmutual.com	
Statutory Statement Contact		A. Peatman Name)	1	413-744-6327 (Area Code) (Telephone Number)
tpeati	man@massmutual.com	ivanie)		413-226-4086
	(E-mail Address)			(FAX Number)
		(	OFFICERS	
President and Chief Executive Officer	Roger William	Crandall	Treasurer	Todd Garett Picken
Secretary	Pia Denise F	anagan	Apointed Actuary	
			OTHER	
Elizabeth Ward Chicares #, Cl	nief Financial Officer		lig, Executive Vice President and eneral Counsel	Michael Robert Fanning, Executive Vice President
Melvin Timothy Corbett, Execu			onoral oddinor	Wildrack Hobolt Familing, Excedence Floor Flooring
		DIRECTO	RS OR TRUSTEES	
Roger William Crandal Mark Douglas F		Micha	ael Robert Fanning	Elizabeth Ward Chicares #
State of Ma	assachusetts	— SS:		
County of	Hampden			
all of the herein described assets wastement, together with related exh condition and affairs of the said regin accordance with the NAIC Annuarules or regulations require difference respectively. Furthermore, the scope assets the same as the same	were the absolute property iibits, schedules and expla or softhe repoil al Statement Instructions a ences in reporting not rel one of this attestation by the	of the said reporting nations therein contain ting period stated abound Accounting Praction ated to accounting period described officers a	entity, free and clear from any lie ned, annexed or referred to, is a ful ive, and of its income and deductio ces and Procedures manual excep tractices and procedures, accordir lso includes the related correspond	eporting entity, and that on the reporting period stated above, no or claims thereon, except as herein stated, and that this I and true statement of all the assets and liabilities and of the not therefrom for the period ended, and have been completed to the extent that: (1) state law may differ; or, (2) that state not to the best of their information, knowledge and belief, ling electronic filing with the NAIC, when required, that is an any be requested by various regulators in lieu of or in addition
Roger William Cranda		Pia [	Denise Flanagan	Todd Garett Picken
President and Chief Executiv	re Officer		Secretary	Treasurer
Subscribed and sworn to before me day of	this		a. Is this an original fil b. If no, 1. State the amend 2. Date filed	ment number

### **ASSETS**

			Current Year		Prior Year
		1 General Account Basis	2 Fair Value Basis	3 Total (Cols. 1 + 2)	4 Total
1.	Bonds (Schedule D)	953,267,813	2,021,849,951	2,975,117,764	2,910,429,996
2.	Stocks (Schedule D):				
	2.1 Preferred stocks				
	2.2 Common stocks		922,484,495	922,484,495	917,857,225
3.	Mortgage loans on real estate (Schedule B)	16,479,834		16,479,834	18,696,690
4.	Real estate (Schedule A):				
	4.1 Properties held for the production of income (less				
	\$ encumbrances)				
	4.2 Properties held for sale (less \$				
	encumbrances)				
5.	Contract loans				
6.	Cash (\$620,684 Schedule E - Part 1), and cash				
	equivalents (\$262,475,070 , Schedule E - Part 2)	62,296,781	200,798,973	263,095,754	336,362,648
7.	Short-term investments (Schedule DA)	40,564,681	35,526,212	76,090,893	37,011,389
8.	Derivatives (Schedule DB)	210,668	21,581,903	21,792,571	19,331,367
9.	Other invested assets (Schedule BA)				
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)	1,072,819,777	3,202,241,534	4,275,061,311	4,239,689,315
13.	Investment income due and accrued	6,686,331	5,884,591	12,570,922	12,776,610
14.	Receivables for securities	7,640,124	16,779,022	24,419,146	26,358,119
15.	Net adjustment in assets and liabilities due to foreign exchange rates				
16.	Aggregate write-ins for other than invested assets				
17.	Total (Lines 12 to 16)	1,087,146,232	3,224,905,147	4,312,051,379	4,278,824,044
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)				
1601.					
1602.					
1603.					
1698.	Summary of remaining write-ins for Line 16 from overflow page				
1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)				

### **LIABILITIES AND SURPLUS**

<u> </u>		/ litb 0011	î LUU		5: 1/
		1	Current Year	3	Prior Year
		General Account Basis	Fair Value Basis	Total (Cols. 1 + 2)	Total
1.	Aggregate reserve for life, annuity and accident and health contracts (Exhibit 3, Line 9999999, Col. 2)	1,093,245,701	3, 197, 382, 962	4,290,628,663	4,237,379,658
2.	Liability for deposit-type contracts (Exhibit 4, Line 9, Col. 1)				
3.	Interest Maintenance Reserve	1,759,132		1,759,132	2,086,556
4.	Charges for investment management, administration and contract guarantees due or accrued	705,365	284,740	990 , 105	1, 104, 252
5.	Investment expenses due or accrued (Exhibit 1, Line 24)				
6.	Investment taxes, licenses and fees due or accrued, excluding federal income taxes (Exhibit 2, Line 8)				
7.	Federal and foreign income taxes due or accrued (excluding deferred taxes)				
8.	Reserve for future federal income taxes				
9.	Unearned investment income				
10.	Other transfers to general account due or accrued (net) (including				
	\$577,737 accrued expense allowances recognized in				
	reserves)	(17,564,483)	577,737	(16,986,746)	(17,637,420)
11.	Remittances and items not allocated				
12.	Derivatives	131,102	14,226	145,328	78,756
13.	Payable for securities	8,856,822	25,103,636	33,960,458	53,224,114
14.	Payable for securities lending				
15.	Net adjustment in assets and liabilities due to foreign exchange rates				
16.	Aggregate write-ins for liabilities		658,207	658,207	504,440
17.	Total liabilities (including \$(15,996,641) due or accrued net				
	transfers to or (from) the general account)	1,087,146,232	3,224,905,147	4,312,051,379	4,278,824,044
18.	Contributed surplus				
19.	Aggregate write-ins for special surplus funds				
20.	Unassigned funds				
21.	Surplus (Lines 18 through 20)				
22.	Totals	1,087,146,232	3,224,905,147	4,312,051,379	4,278,824,044
	DETAILS OF WRITE-INS	.,,	5,==1,015,111	1,512,151,615	.,=,,
1601	Claims in course of settlement		652,541	652,541	495,517
1602.	Annuitant mortality fluctuation fund			5,583	8,848
1603.	Derivatives accrued interest on swaps			83	
1698.	Summary of remaining write-ins for Line 16 from overflow page				
1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)		658,207	658,207	504.440
	Totals (Lines 1001 tillu 1005 plus 1036)(Line 10 above)		000,207	000,201	304,440
1901.					
1903.	Cummon of romaining write ine far Line 10 from everylaw page				
	Summary of remaining write-ins for Line 19 from overflow page	<b>}</b>			
1999.	Totals (Lines 1901 thru 1903 plus 1998)(Line 19 above)				

### **SUMMARY OF OPERATIONS**

	SUMMARY OF OPERATIONS		
		1 Current Year	2 Prior Year
1.	Transfers to Separate Accounts:	Current roal	r nor rour
	1.1 Net premiums and annuity considerations for life and accident and health contracts	34,228,357	36,648,717
	1.2 Considerations for supplementary contracts with life contingencies		
	1.3 Aggregate write-ins for other transfers to Separate Accounts		
	1.4 Totals (Lines 1.1 to 1.3)	34,228,357	36,648,717
2.	Transfers on account of deposit-type contracts (including \$ deposits		
	less \$ withdrawals)		00 200 621
3. 4.			90,290,001
	Aggregate write-ins for other income	10.4 00= ===	126,939,348
DEDUC		101,007,117	120,000,010
	Transfers from the Separate Account on account of contract benefits:		
	6.1 Death benefits	24,282,749	31,841,112
	6.2 Matured endowments		
	6.3 Annuity benefits	3,956,535	705,857
	6.4 Payments on supplementary contracts with life contingencies		
	6.5 Accident and health benefits		40.040.007
	6.6 Surrender benefits and withdrawals for life contracts		
_	6.7 Aggregate write-ins for other transfers from Separate Accounts on account of contract benefits		
7. 8.	Transfers on account of policy loans		
8. 9.	Other transfers from the Separate Accounts:	(3,373, 137)	1,002,309
3.	9.1 Federal and foreign income taxes incurred		
	9.2 Change in expense allowances recognized in reserves		
	9.3 Aggregate write-ins for other transfers from Separate Accounts		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
10.	Subtotals (Lines 6.1 to 9.3)		81,836,398
11.	Fees associated with charges for investment management, administration and contract guarantees		
12.	Increase in aggregate reserve for life and accident and health contracts	53,249,005	(24,667,835)
13.	Increase in liability for deposit-type contracts		
14.	Increase in reserve for future federal income taxes		
15.	Aggregate write-ins for reserves and funds	153,759	(264,840)
16.	Totals (Lines 10 to 15)	194,697,777	126,939,348
17.	Net gain from operations (including \$ unrealized capital gains) (Line 5 minus Line 16)		
	SURPLUS ACCOUNT		
18.	Surplus, December 31, prior year		
19.	Net gain from operations (Line 17)		
20.	Surplus contributed or (withdrawn) during year		
21. 22.	Change in reserve on account of change in valuation basis, (increase) or decrease		
23.	Aggregate write-ins for gains and losses in surplus		
24.	Surplus, December 31, current year (Page 3, Line 21)		
	DETAILS OF WRITE-INS		
01.301.			
01.302.			
01.303.			
01.398.	Summary of remaining write-ins for Line 1.3 from overflow page		
01.399.	Totals (Lines 01.301 thru 01.303 plus 01.398)(Line 1.3 above)		
	Summary of remaining write-ins for Line 4 from overflow page		
	Totals (Lines 0401 thru 0403 plus 0498)(Line 4 above)		
	Summary of remaining write-ins for Line 6.7 from overflow page		
	Totals (Lines 06.701 thru 06.703 plus 06.798)(Line 6.7 above)		
	Miscellaneous loss	1,381	
		· ·	
09.303.			
09.398.	Summary of remaining write-ins for Line 9.3 from overflow page		
09.399.	Totals (Lines 09.301 thru 09.303 plus 09.398)(Line 9.3 above)	1,381	
	Claims in course of settlement		(268, 140)
	Change in annuitant mortality fluctuation fund		3,300
	Summary of remaining write-ins for Line 15 from overflow page		
	Totals (Lines 1501 thru 1503 plus 1598)(Line 15 above)	153,759	(264,840)
	Summary of remaining write-ins for Line 23 from overflow page		
	Totals (Lines 2301 thru 2303 plus 2398)(Line 23 above)		
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## ANNUAL STATEMENT FOR THE YEAR 2016 OF THE SEPARATE ACCOUNTS OF THE MML Bay State Life Insurance Company ANALYSIS OF OPERATIONS BY LINES OF BUSINESS

			J. G. G		LINES OF BU					
		1	•	Ordinary			oup 6	Accident 7	and Health	9
		Total	2 Life Insurance	3 Individual Annuities	4 Supplementary Contracts	5 Life Insurance	Annuities	Group	8 Other	Aggregate of All Other Lines of Business
1	Transfers to Separate Accounts:	Total	Life insurance	Individual Annuilles	Supplementary Contracts	Life insurance	Aimuilles	Group	Other	Lines of Dusiness
	1.1 Net premiums and annuity considerations for life and accident and health contracts	34,228,357	34,180,431	15,560		32,366				
	1.2 Considerations for supplementary contracts with life contingencies	J+,220,007	, 100, 701	10,000		02,000				
	1.3 Aggregate write-ins for other transfers to Separate Accounts									
	1.4 Totals (Lines 1.1 to 1.3)	34,228,357	34,180,431	15.560		32,366				
2	Transfers on account of deposit-type contracts (including	07,220,007	04, 100, 401	10,000		02,000		+		
۷.	\$ deposits less \$ withdrawals)									
3.	Net investment income and capital gains and losses	160,469,420	49,280,183	1,913,618		109,275,619				
4.	Aggregate write-ins for other income	100,409,420	49,260,163	,913,016		109,275,019	<u> </u>			
5.	Totals (Lines 1.4 to 4)	194,697,777	83,460,614	1,929,178		109.307.985				
DEDUCT		134,031,111	63,400,014	1,929,176		109,307,963				
DEDUC	Transfers from the Separate Account on account of contract benefits:									
0.	6.1 Death benefits	24,282,749	3,830,511			20,452,238				
	6.2 Matured endowments	24,202,749				20,402,200				
	6.3 Annuity benefits	3.956.535		3,956,535			<u> </u>			
	6.4 Payments on supplementary contracts with life contingencies									
	6.5 Accident and health benefits				·		·			
	6.6 Surrender benefits and withdrawals for life contracts	39,852,273	35,397,947	3,729,046		725,280				
	6.7 Aggregate write-ins for other transfers from Separate Accounts on account of contract				<del> </del>					
	benefits									
7.	Transfers on account of policy loans	7,171,961	7, 171, 961							
8.	Net transfer of reserves from or (to) Separate Accounts	(5,373,157)	943.032	4.825		(6,321,014)				
9.	Other transfers from the Separate Accounts:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(0,02.,01.)				
0.	9.1 Federal and foreign income taxes incurred									
	9.2 Change in expense allowances recognized in reserves	(91,854)	(86,573)	(5,281)						
	9.3 Aggregate write-ins for other transfers from Separate Accounts	1,381				1,381				
10.	Subtotals (Lines 6.1 to 9.3)	69.799.888	47.256.878	7.685.125		14.857.885				
11	Fees associated with charges for investment management, administration and contract		,200,0.0							
	guarantees	71,495,125	39,600,002	617.347		31,277,776				
12.	Increase in aggregate reserve for life and accident and health contracts	53,249,005	(3,553,290)	(6,370,029)		63, 172, 324				
13.	Increase in liability for deposit-type contracts									
14.	Increase in reserve for future federal income taxes									
15.	Aggregate write-ins for reserves and funds	153,759	157,024	(3,265)						
16.	Totals (Lines 10 to 15)	194,697,777	83,460,614	1,929,178		109,307,985				
17.	Net gain from operations (including \$ unrealized capital									
	gains) (Line 5 minus Line 16)									
	DETAILS OF WRITE-INS									
01.301.										
01.302.										
01.398.	Summary of remaining write-ins for Line 1.3 from overflow page									
01.399.	Totals (Lines 01.301 thru 01.303 plus 01.398) (Line 1.3 above)									
0401.										
0402.							<u> </u>			
0403.										
0498.	Summary of remaining write-ins for Line 4 from overflow page									
0499.	Totals (Lines 0401 thru 0403 plus 0498) (Line 4 above)									
06.702.										
								<u> </u>		
	Summary of remaining write-ins for Line 6.7 from overflow page				L					
	Totals (Lines 06.701 thru 06.703 plus 06.798) (Line 6.7 above)									
	Miscellaneous loss	1,381				1,381				
09.303.								4		<b>-</b>
	Summary of remaining write-ins for Line 9.3 from overflow page				<b> </b>					
	Totals (Lines 09.301 thru 09.303 plus 09.398) (Line 9.3 above)	1,381				1,381				
	Claims in course of settlement	157,024	157,024							
	Change in annuitant mortality fluctuation fund	(3,265)		(3,265)						
1503.					L			4		<b>-</b>
1598.	Summary of remaining write-ins for Line 15 from overflow page									
1599.	Totals (Lines 1501 thru 1503 plus 1598) (Line 15 above)	153,759	157,024	(3,265)						

#### ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR

	ANAL 1313 OF INC		ITILOLITA	Ordinary	<u> </u>	Gro	ın
			2	3	4	5	6
		Total	Life Insurance	Individual Annuities	Supplementary Contracts	Life Insurance	Annuities
1.	Reserve Dec. 31 of prior year	4,237,379,658	691,312,931	46,375,329		3,499,691,398	
2.	Tabular net premiums and considerations for annuities and supplementary contracts with life contingencies	34,228,357	34 , 180 , 431	15,560		32,366	
3.	Increase or (decrease) from investment results after provision for federal income taxes	160,469,420	49,280,183	1,913,618		109,275,619	
4.	Tabular less actual reserve released						
5.	Increase in reserve on account of change in valuation basis						
6.	Other increases (net)						
7.	Totals (Lines 1 to 6)	4,432,077,435	774,773,545	48,304,507		3,608,999,383	
8.	Net transfer of reserves from or (to) Separate Accounts	(5,373,157)	943,032	4,825		(6,321,014)	
9.	Tabular cost						
10.	Reserves released by death	24,282,749	3,830,511			20,452,238	
11.	Reserves released by other terminations (net)	39,852,273	35,397,947	3,729,046		725,280	
12.	Transfers on account of annuity and supplementary contract payments involving life contingencies	3,956,535		3,956,535			
13.	Charges for investment management, administration and contract guarantees	71,495,125	39,600,002	617,347		31,277,776	
14.	Aggregate write-ins for other decreases in reserves	7,235,247	7,242,412	(8,546)		1,381	
15.	Total deductions (Lines 8 to 14)	141,448,772	87,013,904	8,299,207		46,135,661	
16.	Reserve December 31 of current year	4,290,628,663	687,759,641	40,005,300		3,562,863,722	
	DETAILS OF WRITE-INS						
1401.	Change in policy loans	7, 171, 961	7, 171,961				
1402.	Change in claims in course of settlement	157,024	157,024				
1403.	Miscellaneous loss	1,381				1,381	
1498.	Summary of remaining write-ins for Line 14 from overflow page	(95, 119)	(86,573)	(8,546)			
1499.	Totals (Lines 1401 thru 1403 plus 1498) (Line 14 above)	7,235,247	7,242,412	(8,546)		1,381	

### **EXHIBIT OF NET INVESTMENT INCOME**

			1		2
			ted During Year		
1.	U.S. Government bonds	(a)	10,981,177		11,017,529
1.1	Bonds exempt from U.S. tax				
1.2	Other bonds (unaffiliated)	(a)	85,112,099		84,782,075
1.3	Bonds of affiliates	(,			
2.1	Preferred stocks (unaffiliated)	(b)			
2.11	Preferred stocks of affiliates				
2.2	Common stocks (unaffiliated)		65,901,363		65,901,363
2.21	Common stocks of affiliates				
3.	Mortgage loans	(c)	940,494		926,072
4.	Real estate	(d)			
5	Contract loans				
6	Cash, cash equivalents and short-term investments	(e)	354,714		457, 124
7	Derivative instruments	(f)	2,671,377		2,671,370
8.	Other invested assets				
9.	Aggregate write-ins for investment income				
10.	Total gross investment income		173,897,628		
11.	Investment expenses				
12.	Investment taxes, licenses and fees, excluding federal income taxes			(g)	
13.	Interest expense			(h)	
14.	Depreciation on real estate and other invested assets			(i)	
15.	Agregate write-ins for deductions from investment income				
16.	Total deductions (Lines 11 through 15)				
17.	Net investment income (Line 10 minus Line 16)				173,691,935
	DETAILS OF WRITE-INS				
0901.	Miscellaneous Income		7.608.979		7.608.979
0902.	Amortization of IMR				327,424
0903.					,
0998.	Summary of remaining write-ins for Line 9 from overflow page				
0999.	Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above)		7.936.403		7.936.403
1501.	(2)		, , , ,		, ,
1502.					
1503.					
1598.	Summary of remaining write-ins for Line 15 from overflow page				
1599.	Totals (Lines 1501 thru 1503 plus 1598) (Line 15, above)				

(a) Includes \$	1,950,498	accrual of discount less \$3,445,449	amortization of premium and less \$2,549,543	paid for accrued interest on purchases.
(b) Includes \$		accrual of discount less \$	amortization of premium and less \$	paid for accrued dividends on purchases.
(c) Includes \$	4,025	accrual of discount less \$50,530	amortization of premium and less \$	paid for accrued interest on purchases.
(d) Includes \$		for company's occupancy of its own building	s; and excludes \$ interest on encur	mbrances.
(e) Includes \$	27,667	accrual of discount less \$17,763	amortization of premium and less \$34,647	paid for accrued interest on purchases.
(f) Includes \$		accrual of discount less \$	amortization of premium.	
	d and Separate Acc		investment taxes, licenses and fees, excluding fede	eral income taxes, attributable to
(h) Includes \$		interest on surplus notes and \$	interest on capital notes.	
(i) Includes \$		depreciation on real estate and \$	depreciation on other invested assets.	

**EXHIBIT OF CAPITAL GAINS (LOSSES)** 

		1	2	3	4	5
		Realized Gain (Loss) On Sales or Maturity	Other Realized Adjustments	Total Realized Capital Gain (Loss) (Columns 1 + 2)	Change in Unrealized Capital Gain (Loss)	Change in Unrealized Foreign Exchange Capital Gain (Loss)
1.	U.S. Government bonds	(1,054,830)		(1,054,830)	(1,660,050)	
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)	(9,056,494)		(9,056,494)	(11,320,289)	
1.3	Bonds of affiliates					
2.1	Preferred stocks (unaffiliated)					
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)	16,375,170		16,375,170	(11,200,498)	
2.21	Common stocks of affiliates					
3.	Mortgage loans					
4.	Real estate					
5.	Contract loans					
6.	Cash, cash equivalents and short-term investments	346,888				
7.	Derivative instruments			1,952,957	2,394,633	
8.	Other invested assets					
9.	Aggregate write-ins for capital gains (losses)					
10.	Total capital gains (losses)	8,563,691		8,563,691	(21,786,204)	
	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)					

Exhibit 1
NONE

Exhibit 2 **NONE** 

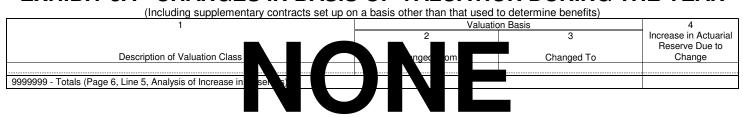
## EXHIBIT 3 - AGGREGATE RESERVE FOR LIFE, ANNUITY AND ACCIDENT AND HEALTH CONTRACTS

1	2	3	4
Description of Valuation Basis	Total	Ordinary	Group
0100001. 58 CSO 4.00% Mod CRVM (issued 1983 to 1988)	10,093,300	10,093,300	
0100002. 80 CSO 5.50% CRVM (issued 1988 to 1992)	187,559,631	187,559,631	
0100003. 80 CSO 5.00% CRVM (issued 1993 to 1994)	490, 106, 710	490, 106, 710	
0100004. 80 CSO Account Value	3,562,863,722		3,562,863,722
0199999. Life Insurance: Totals	4,250,623,363	687,759,641	3,562,863,722
0200001. Deferred Annuity 4.75%-6.50% CARVM	39,819,197	39,819,197	
0200002. Annuity Reserve 4.00% VA Valuation 82	186, 103	186, 103	
0299999. Annuities: Totals	40,005,300	40,005,300	
9999999. Totals (to Page 3, Line 1)	4,290,628,663	727,764,941	3,562,863,722

#### **EXHIBIT 3 - INTERROGATORIES**

1.1	Has the reporting entity ever issued both participating and non-participating variable life insurance contracts?		Yes	[	] N	√o [	Х ]		
2.1	Does the reporting entity at present issue both participating and non-participating variable life insurance contracts?		Yes		] N	lo [	Х ]		
2.2	Non-participating								
3.1	Is any surrender value promised in excess of the reserve as legally computed?	Yes [	]	No	[ X	]	N/A	[	]
3.2	If so, the amount of such excess must be included in surrender values in excess of reserves otherwise required and carried in this schedule. Has this been done?  Attach a statement of methods employed in the valuation of variable life insurance contracts issued at, or subsequently subject to, an extra premium or in the valuation of contracts otherwise issued on lives classified as substandard for the plan of contract issued or on special class lives (including paid-up variable life insurance).	Yes [	]	No	]	]	N/A	[ X	]

#### **EXHIBIT 3A - CHANGES IN BASIS OF VALUATION DURING THE YEAR**



# Exhibit 4 **NONE**

#### **EXHIBIT 5 - RECONCILIATION OF CASH AND INVESTED ASSETS**

6. Cost of Investments acquired (excluding abort form bonds)         1,822,455,546           9. Transfers from Separate Accounts on account of continat benefits         20,724,05           9.2 Natural control of programs of Accounts on account of continat benefits         3,965,33           9.2 Natural control of programs of Accounts on account of control of programs of the control of the programs of the programs of the control of the programs of		DEVELOPMENT OF INCREASE IN CASH	1 Amount
1. Decessor recognized international for the transfers for Regulative Accounts (1998) 2. Decessor in configurated of the character and control (1998) 3. Concessor in continuous of a device minimal control of a device of the character and control (1998) 4. Concessor in control control of the character and control (1998) 5. Application of the character and control (1998) 5. Application of the character and control (1998) 6. Application of the character and control (1998) 6. Transfer from Repeate Accounts or account of control developed (1998) 6. Transfer from Repeate Accounts or account of control developed (1998) 6. Transfer from Repeate Accounts or account of control developed (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the from the character and control (1998) 6. Account on the charact	1.		
2. Departs in departs of investment prices without face and other stabilities without the or discitity confingences   1,0 km stable   1,1 km			
Transfer   Content   Con	0		
6. Concessation of dispose of botherm benefits of print or mixes)  7.76, 45, 25  6. Agranged with in the other processor in last from speciations  8. 18, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45			
5. Construction or disposal of interesting security of processing or control of security of the control of the			
1. Trial funct 1 is 5 Cost of invested appared (exclusing proof-term briefle) 1. Trial function in the Copeant Accounts on account of controls benefits 2. Amounts of Commonts 2. Amounts of Commonts 3. Amounts 3. Amoun			
8. Cost of Investments acquired security and selectioning shock-have brooming:  1. Translation from Segurate Accounts on counter from the security of the secu	6.	· · · · · · · · · · · · · · · · · · ·	
9. Transfers have Separate Accounts on associated of contract benefits: 9. The Account of a coloration of the Contraction of C	7.	Total (Lines 1 to 6)	1,918,499,371
5.1 North controllers    2,744.00   2.2 Matters controllers    3,865.00   3.2 Matters controllers    3,865.00   3.2 Matters controllers and information in the controllers    3,865.00   3.2 Account of control state for controls    3,865.00   3.2 Privatory compared for controls    3,865.00   3.2 Privatory control controls    3,865.00   3.2 Privatory control controls    3,865.00   3.3 Privatory control controls    3,865.00   3.4 Register of received and in the control controls    3,865.00   3.4 Supplies which is the control controls    3,865.00   3.5 Supplies    3,865.00   3.5 Suppl	8.	Cost of investments acquired (excluding short-term bonds)	1,832,495,649
9.2 Manuary devolutions   3,596,50   9.3 A Particular Devolution   3,596,50   9.4 A Supportmentary cannot stands with file confrequencies   3,596,50   9.5 Supportmentary cannot stands with file confrequencies   3,596,50   9.5 Supportmentary cannot invalidate for the contracts   3,596,50   9.5 Supportmentary cannot invalidate for the contracts   3,596,50   9.5 A Pagingation of animals are stands of the file animals of contract for the contract f	9.	·	
a 3.4 Avoids harderly comited benefits will life confragences 3.5 Accident and health benefits 3.5 Accident and health benefits 3.7 Accident and health benefits 3.7 Policy comprised 3.6 Accident and research selects 3.6 Accident and research selects 3.6 Accident and which for other branders from Separate Accounts on account of context breedfas 3.6 Accident and which for other branders from Separate Accounts 3.7 Accident and accident accident and accident accide			
8 - Suppremiser control towerfor with the contrologicals 9 - So Apricate transfer to a white deads for life contrologic 9 - So Appreciate transfer to a whitedeads for life contrologic 9 - Agriegate white-life for the start ransfer from Septite Accounts on account of control as the control of the control o			
9. Account and half bit biterials. 39 80.77 9. Priory name (ear). 9. Surprise benefit and withdrawals for life contracts 1. (17.1).80 9. Account count, received the count of the count of counts of counts benefits 1. (17.1).80 9. Account from Separate Accounts 1. (17.1).80 9. Account from Separate Accounts 1. (17.1).80 1. (17.1).			
9. Starcetor bevoils and withdroweds for the correctors. 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 7, 1719, 9. 37. Transfers of necesses (eds.). 9. 1, 1719, 9. 37. Transfers			
8 2 Prisity terms (ref) - (3,67) 8 1			
B. A Transforce of reserves (end) 9- 24 Aggregate wither is to other transfers from Separate Accounts 10- Other transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on opposite price or transfers from Separate Accounts 11- Windrawston on Separate Price Separate			
9. Agangsage write-ins for other transfers from Separate Accounts 10. 2 Agangsage write-ins from Separate Accounts 11. Federal income taxes. 12. Agangsage write-ins from Separate Accounts 13. Agangsage write-ins from Separate Accounts 13. Insident income taxes. 13. Insident income taxes. 13. Insident income taxes. 14. Insident income taxes. 15. Insident income taxes. 15. Insident income taxes. 15. Insident income taxes. 17. 18. Insident income taxes. 18. Insident			
1.2 Federal income bases 10.2 Appropriate while his for the front foundation of the fluidition will be of stability confinencies 11. Willinderade on exposit-type contract funds and other fluiditions will be of stability confinencies 12. Federal secondated with investment management, administration and contract agriculture. 12. Federal secondated with investment management, administration and contract agriculture. 13. Federal funds on the contract fluidition of the fluidition of contract agriculture. 14. Federal (Lines & 16.7) 15. Funds front operations fill fill in the fluidition of the fluidition o			
1.24.2 Agoregate write in sor of whot transfers from Separate Accourse.  1. Withdraws can be reported by control and and white institute without list or disability contragencies.  2. Howevernot exponence (Exhibit 1, line 25).  2. Face accounts with investment amoughout, administration and control guarantees.  2. Ti, 1500, 27  3. Total (Lines to 1s).  3. Total (Lines to 1s).  3. Total (Lines to 1s).  4. Total (Lines to 1s).  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  5. Funds from operations (In or Times In Institute)  6. Funds from operations (In or Times In Institute)  6. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times In Institute)  7. Funds from operations (In or Times Institut	10.	Other transfers from Separate Accounts:	
International confequency (Chinha)   International control principles without the ord deathily confingencies   17,00,27		10.1 Federal income taxes	
15.   Investment expenses (Exhibit 1, Line 25)			
11.1   Fore accordance with investment imanagement, administration and contract guarantees			
1.5   Treatment taxes, iconses and fees, excluding febral income taxes (Enhibit 2, Line 9)			
1.574.41.55   Funds from postations (Line 7 minus Line 14)			
15. Funds from operations (Line 7 minus Line 14).  15. Surplus combinates of (withbroad) uduring year.  17. Aggregate write in for other changes in funds.  18. Total funds (includes \$ 106.477.27 met transfers from general account) (Lines 15 to 17).  19. Increase in payable for investments acquired, not of receivable for investments soid.  10. Decrease in payable for other econoling items  10. Aggregate write-ins for other econoling items  10. Total funds on the case (fund 18 to 27).  10. Cash and invested assets acquired.  11. Stage 20. Cash acquired invested assets acquired.  12. Cash acquired assets acquired.  13. Aggregate write-ins for other reconciling items.  14. Cash acquired assets acquired.  15. Cash acquired assets acquired.  16. Cash acquired assets acquired.  17. Cash acquired assets acquired.  18. Cash acquired assets acquired.  19. Cash acquired acquired assets acquired.  19. Cash acquired a			
16. Surplus contributed or (withdrawn) during year. 2. Agregative while into or other charges in funds. 2. (50 \$42.21) 2. Increase in popility from common acquired, not of receivable for investments sold. 2. Increase in cash (Line 18 to 21). 2. RECONCILIATION BETWEEN YEARS 2. Land and invested assets. December 31st of prior year. 2. Land and invested assets. December 31st of prior year. 3. (73 \$46.86) 3. (73			
17. Aggregate write-ins for other changes in funds. 15. Total funds (includes \$			
16.   Total funds (includes \$ 100,472.87 net transfers from general account), (Lines 15 to 17)			
19. Increase in payable for investments acquired, not of receivable for investments sold 21. Aggregate write-inst for other recorolling terms 22. Increase in cash (Line 19 20) 23. Cash and invested assets, December 31st of prior year. 24. Increase in cash (Line 19 2) 25. Cash and invested assets, December 31st of prior year. 26. Cash and invested assets, December 31st of prior year. 27. Increase in cash (Line 22) 28. Cash and invested assets (appeal of			
Decrease in policy loans			
2.1   Agrowague write-ins for other reconciling fems   1,73 26,18			
Increase in cash (Line 18 to 21)			
2.2. Cash and invested assets. December 31st of prior year. 2.3. Loncase in cash (Line 22) 2.5. Cost of invested assets acquired. 2.6. Adjusted cost assets discogned. 3.1, 987, 290, 192 2.7. Increase in policy lons. 3.1, 1987, 290, 192 2.8. Accusate of discount less amorization of premium. 3.1, 1987, 290, 192 2.9. Adjusted of discount less amorization of premium. 3.1, 1987, 290, 192 2.9. Accusate of discount less amorization of premium. 3.1, 1987, 290, 192 2.9. Accusate of interested assets acquired. 3.1, 1987, 290, 1987,	22.		
1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,857,294,05			
1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,73,568,8   1,857,294,05	23.	Cash and invested assets, December 31st of prior year.	4,239,689,315
26. Ajusted cost of assets disposed of.       1, 885,294,05         27. Increase in pricity foams.       (1, 531,55)         28. Accrual of discount less amortization of premium.       (1, 531,55)         30. Increase in net unrealized gains.       (21,786,20)         31. Appropriate write-ins for the reconciling items.       4, 275,061,31         32. Cash and invested assets. December 31st of current year       4, 275,061,31         DETAILS OF WRITE-WS       1, 201,201,201,201,201,201,201,201,201,201,	24.		
Increase in policy loans.	25.	Cost of invested assets acquired.	1,967,250,709
28. Accrual of discount less amortization of premium.         (1,551,55           20. Depreciation on real estate and other invested assets.	26.	Adjusted cost of assets disposed of.	1,835,294,057
282   Deprociation on real estate and other invested assets	27.		
1.00   1.00			
Aggregate write-ins for other reconciling items.		·	
2.2. Cash and invested assets, December 31st of current year   4.275,061,31			
DETAILS OF WRITE-INS		** *	
01.201	52.		4,270,001,011
01 202	01 201		
1.293			
101299   Totals (Lines 01.201 thru 01.203 plus 01.298) (Line 1.2 above)			
0601	01.298.	Summary of remaining write-ins for Line 1.2 from overflow page	
0602.	01.299.	Totals (Lines 01.201 thru 01.203 plus 01.298) (Line 1.2 above)	
0603.       Summary of remaining write-ins for Line 6 from overflow page.         0699.       Totals (Lines 0601 thru 0603 plus 0699) (Line 6 above)         09.901.       9.902.         09.903.       9.903.         09.998.       Summary of remaining write-ins for Line 9.9 from overflow page.         09.999.       Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above)         10.201.       Change in remitTances and items not all located.         10.202.       Change in remitTances and items not all close to a summary of remaining write-ins for Line 10.2 from overflow page.         10.203.       Wiscell laneous loss.         10.298.       Summary of remaining write-ins for Line 10.2 from overflow page.         10.299.       Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)       1,240,32         1701.       1,240,32         1702.       1,240,32         1703.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,240,32         1709.       1,24			
0698. Summary of remaining write-ins for Line 6 from overflow page.         0699. Totals (Lines 0601 thru 0603 plus 0699) (Line 6 above)           09 901	0602.		
0699. Totals (Lines 0601 thru 0603 plus 0698) (Line 6 above)         9.901           09.902.         9.903           09.993. Summary of remaining write-ins for Line 9.9 from overflow page         9.999. Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above)           10.201. Change in remittances and items not allocated         1,187,45           10.202. Change in transfers to general account due or accrued         51,49           10.203. Miscel laneous Ioss         51,49           10.298. Summary of remaining write-ins for Line 10.2 from overflow page         1,38           10.299. Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)         1,240,32           1701. 1701. 1702. 1703. 1704. 1709. 170	0603.		
09.901       09.902         09.902       09.903         09.998. Summary of remaining write-ins for Line 9.9 from overflow page       9.999.         09.999. Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above)       1,187,45         10.201. Change in remittances and items not allocated       1,187,45         10.202. Change in transfers to general account due or accrued       51,49         10.203. Miscel laneous loss       1,38         10.299. Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)       1,240,32         1701.       1,703.         1703.       1,703.         1798. Summary of remaining write-ins for Line 17 from overflow page.       1,240,32         1799. Totals (Lines 1701 thru 1703 plus 1799) (Line 17 above)       1,240,32         2101.       2,202.         2102.       3,203.         2103.       3,203.         2198. Summary of remaining write-ins for Line 21 from overflow page.       2,202.         2103.       3,203.         2199. Totals (Lines 2101 thru 2103 plus 2199) (Line 21 above)       3,203.         3101.       3,203.         3102.       3,203.         3103.       3,203.         3104.       3,204.         3105.       3,204.         3106. <t< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td></t<>		· · · · · · · · · · · · · · · · · · ·	
09.902   09.903   09.903   09.905   0			
09 903.       Summary of remaining write-ins for Line 9.9 from overflow page			
09.998   Summary of remaining write-ins for Line 9.9 from overflow page			
10.291   Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above)   10.201   Change in remittances and items not allocated			
10.201. Change in remittances and items not allocated		· · · · · · · · · · · · · · · · · · ·	
10.202. Change in transfers to general account due or accrued       .51,49         10.203. Miscel laneous loss       .1,38         10.298. Summary of remaining write-ins for Line 10.2 from overflow page		· · · · · · · · · · · · · · · · · · ·	4 407 454
1,38			1 _ 1
10.298. Summary of remaining write-ins for Line 10.2 from overflow page			
10.299. Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)       1,240,32         1701.			
1701			1,240,326
1702.			
1703.			
1798. Summary of remaining write-ins for Line 17 from overflow page         1799. Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above)         2101.         2102.         2103.         2198. Summary of remaining write-ins for Line 21 from overflow page         2199. Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)         3101.         3102.         3103.         3198. Summary of remaining write-ins for Line 31 from overflow page			
1799. Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above)         2101.         2102.         2103.         2198. Summary of remaining write-ins for Line 21 from overflow page.         2199. Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)         3101.         3102.         3103.         3198. Summary of remaining write-ins for Line 31 from overflow page.			
2101.       2102.         2103.       2198.         2198.       Summary of remaining write-ins for Line 21 from overflow page.         2199.       Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)         3101.       3102.         3103.       3103.         3198.       Summary of remaining write-ins for Line 31 from overflow page.			
2102	2101.		
2198. Summary of remaining write-ins for Line 21 from overflow page.  2199. Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)  3101			
2199. Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)         3101.         3102.         3103.         3104.         3105.         3107.         3108.         Summary of remaining write-ins for Line 31 from overflow page	2103.		
3101	2198.	Summary of remaining write-ins for Line 21 from overflow page	
3102. 3103. 3198. Summary of remaining write-ins for Line 31 from overflow page	2199.	Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)	
3103. Summary of remaining write-ins for Line 31 from overflow page			
3198. Summary of remaining write-ins for Line 31 from overflow page	3102.		
3199. Totals (Lines 3101 thru 3103 plus 3198) (Line 31 above)		·	
	3199.	Totals (Lines 3101 thru 3103 plus 3198) (Line 31 above)	

#### **EXHIBIT 6 - GUARANTEED INSURANCE AND ANNUITY PRODUCTS**

		1	2
		Amount	Percent of Total
1.	Aggregate reserve for life, annuity and accident and health contracts (Included in Exhibit 3):		
	1.1 Life insurance	1,093,245,701	25.4
	1.2 Annuities		
	1.3 Supplementary contracts with life contingencies		
	1.4 Accident and health		
	1.5 Miscellaneous reserves		
	1.6 Total	1,093,245,701	25.4
2.	Liability for deposit-type contracts (included in Exhibit 4):		
	2.1 Guaranteed interest contracts		
	2.2 Annuities certain		
	2.3 Supplemental contracts		
	2.4 Dividend accumulations or refunds		
	2.5 Premium and other deposit funds		
	2.6 Total		
3.	Other liabilities (included in Page 3, Lines 4, 10, 13 & 14)	(8,002,296)	(0.2)
4.	Total liabilities associated with guarantees (Lines 1.6 + 2.6 + 3)	1,085,243,405	25.2
5.	Total liabilities not associated with guarantees	3,226,807,974	74.8
6.	Total Separate Accounts liabilities (Lines 4 + 5 = Page 3, Line 17)	4,312,051,379	100.0%

#### **GENERAL INTERROGATORIES**

#### **Product Mix**

1.01 Identify the product types in the separate account, quantify the assets associated with those products, indicate if there are any guarantees associated with those products, quantify seed money and quantify other fees and expenses due to the general account:

Note: A distinct product identifier shall be used for each product and shall be used consistently throughout the interrogatory.

Note: Additional Required Surplus Amounts is defined as additional or permanent surplus that is required to be retained in the separate account in accordance with state law or regulation. These amounts should not include reinvested separate account

1	2	3	4	5	6
		Guarantees			
		Associated with		Fees and Expenses	
	Separate Account	the Product		Due to the	Additional Required
Product Identifier	Assets	Yes/No	Seed Money	General Account	Surplus Amounts
Stable Value Bank-owned Life Insurance	2,264,393,436	YES			
Bank-owned Life Insurance - Guaranteed	1,087,146,232	YES		15,349,830	
Individual Variable Universal Life	688,935,153	YES			
Corporate-owned Life Insurance	231,545,801	YES			
Individual Variable Annuity	40,030,757	YES			
Totals	4,312,051,379	XXX		15,349,830	

investment proceeds that have not been allocated to separate account contract holders Did the reporting entity remit seed money, other fees and expenses or additional required surplus amounts to the general account during the Yes [ X ] No [ ] current year? If yes, provide information on the total gross amount of seed money, other fees and expenses or additional required surplus amounts remitted to the general account during the current year (these amounts should not be reflected in the seed money totals in 1.01): 1 03 1.031 Seed Money... .50,738 1.032 Other Fees and Expenses..... 1.033 Additional Required Surplus Amounts ..\$ .. 1.04 Did the reporting entity receive seed money from the general account in the current year?... Yes [ ] No [ X ] If yes, provide information on the total gross amount of seed money received in the current year: (If amounts were both received and remitted in the current year, include the gross amounts in both 1.031 and 1.051.) 1.051 Seed Money Received...... ...\$ .... 1.06 Does the reporting entity consider any of the seed money reflected in separate accounts to be insulated from the general account? ...... Yes [ ] No [ ] N/A [ X ] 1.07 If yes, provide information on the amount of seed money the reporting entity considers insulated from the general account: 1 071 Insulated Seed Money ... .\$ Does the reporting entity have a policy for repatriating seed money or remitting fees and expenses due and additional required surplus 1.08 amounts to the general account: Yes [ ] No [ Yes [ X ] No [ 1.082 Other Fees and Expenses... 1 No [ 1.083 Additional Required Surplus Amounts .... Yes [ Provide detail on the time duration for which seed money, other fees and expenses due to the general account and additional required surplus amounts have been held in the separate account: 3 Fees and Expenses Additional Required Due to the Seed Money General Account Surplus Amounts 1.091 Under 1 Year 15.349.830 1.092 1 Year - 3 Years 1.093 Over 3 Years - 5 Years 1.094 Over 5 Years 1.095

### **GENERAL INTERROGATORIES**

1.11	If no, does the reporting entity have state additional required surplus amounts that			of seed money, other fees a	and expenses, and		
				1.112 Other Fees and I	Expensesred Surplus Amounts	Yes [ X ] No	[ ] N/A [ ]
Separat 2.1	te Account Products with General Acco	ount Guarantees with guarantees pro	ovided by the general a	ccount?		Yes	[X] No[]
2.2	If yes, what is the current total maximum	n guarantee the gen	eral account would pro	vide to the separate account	?	\$	7,427,245
2.3	Has the separate account collected amo	ounts from the gene	ral account within the p	ast five years related to sep	arate account guarantee:	s? Yes	[ X ] No [ ]
2.4	If yes, provide detail on these guarantee	s paid by the gener	al account:				
	2.402 As of D 2.403 As of D 2.404 As of D	december 31, 2016. december 31, 2015 december 31, 2014. december 31, 2013.		2 Amount 517,611 5			
2.5	To compensate the general account for account remit risk charges to the general						[ ] No [ X ]
2.6	If yes, identify the separate account product is reviewed and opined up		ges that are remitted to	the general account and wh	ether the risk charge for		
	1 Product Identifier with Risk Ch		Risk Charge Review	ed and Opined Upon	Name and Title of I Opinion or	Risk Charges	
2.7	Provide detail on the risk charges paid to	o the general accou	nt related to separate a	account guarantees for the p	ast five years:		
		1 Vear		2 Amount			
	2.701 As of De						
	2.704 As of De	ecember 31, 2013	\$				
	2.705 AS 01 D6	ecember 31, 2012	Φ				
3.1 3.2	nent Directive of Separate Account Acti Does the reporting entity have products contract holder? (Situations in which th contract holder; however, having the co If yes, if these investments would have the	classified within the le investments direct contract holder select	tive mirrors the genera t an investment direction	I account would not be cons n from multiple options would	idered determined by the ld meet this criteria.)	)	[X] No []
0.2	limitations imposed on the general acc	ount?		a tro reporting entity have e		Yes [ ] No	[X] N/A []
3.3	Provide detail on the separate account i account and general investments, excl						
		1		2	3 Combined		
	Inve	stment Type		State Investment Limitation	Investment (Separate and General Account)		
Allocati 4.1	ion of Investment Proceeds of Separate Does the reporting entity have separate assessments) are attributed to a contra	Account Activity account assets in w	which less than 100% o	f investment proceeds (net o	of contract fees and	l I	
	results.)	,			•		[ ] No [ X ]

### **GENERAL INTERROGATORIES**

4.2	If yes, provide detail on the net investment proceeds that were attributed to the contract holder, transferred to the general account and
	reinvested within the separate account:

	1		2	3	4	5				
	Product Identif	ier	Net Investment Proceeds	Attributed to Contract Holder	Transferred to General Account	Reinvested Within the Separate Account				
4.3	For items reinvested within the Separat directives of the general account?						es [	] No [	]	N/A [ X ]
4.4	If no, does the reporting entity have a staccount?	tated policy and procedure	for the reinvestme	nt of investment pro	oceeds within the s	eparate Y	es [	] No [	]	N/A [ X ]
4.5	Did the reinvestment of investment production portfolio that exceeded the state investment.	ceeds within the separate a tment limitations imposed o	account result with ton the general acco	the company havin ount?	g a combined inves	stment Y	es [	] No [	]	N/A [ X ]
easur	ement of Separate Account Assets									
5.1	Does the reporting entity report all sepa	rate account assets at fair	value?					Yes [	]	No [ X ]
5.2	For items not reported at fair value, doe measurement methods?	es the reporting entity report	t separate account	assets at amortize	d cost, and/or unde	er different				
					Amortized Cost			-		
				5.22	Other Measuremen	nt ivietnoas		res [	J	No [X]
5.3	If other measurement methods are use									
5.4	Identify the assets measured at fair values assets measured under each measured		er measurement m	nethod and the perd	centage of separate	e account				
				1	2					
		Description			Percentage					
		Cost								
		asurement Methods								
5.5	For the assets not measured at fair valu gain or loss that would have been reco	ue, provide a comparison of	f the reported value	e to current fair valu		unrealized				
	1	2	3							
	Assets Held at Amortized Cost	Fair Value	Unrecorded Unr Gain/Loss							
	5.51 \$969,747,647									
	1	2	3							
	Assets Held at	2	3							
	Other Measurement	Fair Value	Unrecorded Unr							
		Fair Value	Gain/Loss							
	σ.σ <u></u> ψ	Ψ	Ψ							

6.1	es Lending Transactions Within Separate Accounts  Does the reporting entity engage in securities lending transactions with separate account assets?		Yes [	] No [ X ]	
6.2	If yes, does the reporting entity have written policies and procedures for such transactions?	Yes	[ ] No [	[ ] N/A [ X ]	
6.3	Does the reporting entity obtain approval, or otherwise provide notification to contract holders, regarding securities lending that occur with separate account assets?		[ ] No [	[ ] N/A [ X ]	
6.4	Are all securities lending transactions reported on balance sheet?	Yes	[ ] No [	[ ] N/A [ X ]	
6.5	Provide a description of the reporting entity's securities lending transaction program, specifically identifying any variations lending transaction program administered by the general account.	from the securities			
6.6	Provide detail on the current status of separate account transactions by separate account product: 6.61 Amount of any loaned securities within the separate account and the percentage of separate account assets lent				
	6.611 /	Amount	\$		
	6.612 I	Percentage		%	
	6.62 Identify whether securities lent are reported at book value or market value				
	6.621 I	Book Value	\$		
	6.6221	Market Value	\$		

#### **GENERAL INTERROGATORIES**

			GLNLN	AL INTLN	IOGATONI	LJ			
	6.63 Detail on collat	eral received:							
	6 601 Aggrega	to Amount Call	atoral Passivad						
	6.631 Aggrega	te Amount Con	ateral Received		0.00	211 Onen	ф		
						311 Open 312 30 Days or Less			
					6.60	312 30 Days of Less	Ф Ф		
						314 61 to 90 Days			
						315 Greater than 90 Days			
						316 Total Collateral Received			
	6 632 The agg	regate fair value	of all securities acquired	I from the sale, trade or us		al (reinvested collateral)			
					o of the accepted condicin	ai (remivested condicial)	Ψ		
	6.633 Narrative	e discussion ab	out sources and uses of c						
	6.634 Collatera	l for transaction	ns that extend beyond one	e year from the reporting o	ate		\$		
6.7	For the reporting en	tity's security le	ending program state the a	amount of the following as	December 31 of the curre	nt year:			
				_					
	6.71					m of Schedule DL, Parts 1	\$		
	6.72	Total book ac	djusted/carrying value of r	einvested collateral assets	reported on Schedule DL	., Parts 1 and 2 (Sum of	\$		
	6.73					3)			
FHLB F	unding Agreements								
7.1			deral Home Loan Bank (F	HLB) funding agreements	within the separate accou	int?	Yes [	] No [ X ]	
7.0	Drovida datail an th	a alamanta that	aumout the electionis	of ELLID funding agreem	anto within the concrete or	an a unt			
7.2			• •	= =	ents within the separate ac	count			
7.3	Provide detail regard	ding the FHLB	funding agreements class	ified within the separate a	ccount:				
			T	T	T .	<b>-</b>			
	Атон	1 nt of FHLB	2 Amount of Collateral	3 Total Borrowing or	4 Total Reserves Related				
		urchased or	Pledged to the	Funding Capacity	to FHLB				
		wned	FHLB	Currently Available	Agreements				
	\$		\$	\$	\$				
7.4	F ( "								
7.4			separate account, provide intended use of funding.	e a general description on	the nature of the agreeme	nt, type of funding (lines of			
			•						
			d SAP Financial Stateme	ents (This disclosure is a	applicable to all reporting	g entities regardless if they			
file G/ 8.1	AAP financial statem		financial statements?				Voc. [	1 No [ V 1	
0.1	Does the reporting t	entity life GAAF	ilianciai statements:				ies [	] NO [ X ]	
8.2	In accordance with t	he different ser	parate account reporting r	equirements between GA	AP (SOP 03-1) and statute	orv accounting, does			
	the reporting entity	have products	that are classified within	the separate account that	were, or would have been	if GAAP financial			
					inder GAAP financials? Pu		V 1 Na f	1 N/A F	,
	all of the following	conditions mus	t be met to receive separa	ate account reporting clas	Sification under GAAP:	Yes [	X ] NO [	] N/A [	
	a. Legal Recognit	ion - The sepa	rate account is legally rec	ognized. That is, the sepa	rate account is established	d, approved, and regulated			
				al securities laws, or simil		-, -,-,-,,			
	h. I. a walle daawdad	. J. Th		41 41	and the salles beautiful at all forces.	46			
					are legally insulated from efault risk to the extent of t	the general account liabilities			
	separate acco		iat is, the contract holder	is not subject to mourer de	riauit 113N to the exterit Of t	ne assets neiu III (NE			
	2250.000	- 7-							
					gulatory requirements, inv				
			,	ontract holder in designate	d investment alternatives	or in accordance with specific			
	investment ob	jectives or polic	ies.						

d. Investment Performance - All investment performance, net of contract fees and assessments, must as a result of contractual, statutory, or regulatory requirements be passed through to the individual contract holder. Contracts may specify conditions under which there may be a minimum guarantee, but not a ceiling, as a ceiling would prohibit all investment performance from being passed through to the contract holder

#### **GENERAL INTERROGATORIES**

8.3 Identify all separate account products and identify whether each product was classified within a separate account for GAAP reporting purposes. (For non-GAAP filers, this disclosure should reflect whether the GAAP classification would have been the same if GAAP financials had been completed.) For products that were (or would have been) reported differently, identify which SOP 03-1 condition prevented separate account GAAP classification for that particular product.

1	2
	Same as GAAP / Condition that Requires GAAP General
Product Identifier	Account Reporting
Stable Value Bank-owned Life Insurance	GAAP GIA Classification due to Investment Performance
Bank-owned Life Insurance - Guaranteed	GAAP GIA Classification due to Investment Performance
Individual Variable Universal Life	Same as GAAP
Corporate-owned Life Insurance	Same as GAAP
Individual Variable Annuity	Same as GAAP
,	

#### FORM FOR CALCULATING THE INTEREST MAINTENANCE RESERVE

#### INTEREST MAINTENANCE RESERVE

		1 Amount
1.	Reserve as of December 31, Prior Year	2,086,556
2.	Current year's realized pre-tax capital gains/(losses) of \$	854,777
3.	Adjustment for current year's liability gains/(losses) released from the reserve	(854,777)
4.	Balance before reduction for amount transferred to Summary of Operations (Line 1 + Line 2 + Line 3)	2,086,556
5.	Current year's amortization released to Summary of Operations (Amortization, Line 1, Column 4)	327,424
6.	Reserve as of December 31, current year (Line 4 minus Line 5)	1,759,132

#### AMORTIZATION

	7411	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		1	2	3	4
	Year of Amortization	Reserve as of December 31, Prior Year	Current Year's Realized Capital Gains/(Losses) Transferred into the Reserve Net of Taxes	Adjustment for Current Year's Liability Gains/(Losses) Released From the Reserve	Balance Before Reduction for Current Year's Amortization (Cols. 1 + 2 + 3)
1.	2016	327,419	87,449	(87,444)	327,424
2.	2017	274,713	100,489	(100,494)	274,708
3.	2018		76.502	(76.502)	212, 197
4.	2019		82.029	(82.029)	192,030
5.	2020	199,905		(88,672)	199,905
6.	2021	ĺ	96,238	(96,238)	201.531
7.	2022	,	87,713	(87,713)	205,545
8.	2023		68,248	(68.248)	218,817
9.	2024	220.096	46.008	(46.008)	220,096
10.	2025	192.984	24,004	(24.004)	192,984
11.	2026	147,494	(1,040)	, ,	147,494
12.	2027	92.398	(7.825)	,	92.398
13.	2028	31,684	(1,331)		31,684
14.	2029	1	7.085	(7.085)	(24, 188)
15.	2030		,	(15.509)	(47.764)
16.	2031	(54,315)	24 , 143	(24, 143)	(54,315)
17.	2032			(25,201)	(53,310)
18.	2033	1	18,653	(18.653)	(49.230)
19.	2034	(47,355)	11.530	(11.530)	(47.355)
20.	2035	(47,009)	4,100	(4,100)	(47,009)
21.	2036		(2,923)		(40,456)
22.	2037			5,740	(32,313)
23.	2038		(3,827)	3,827	(24,203)
24.	2039			1,472	(10,114)
25.	2040		873	(873)	
26.	2041		3,054	(3,054)	
27.	2042		4,031	(4,031)	
28.	2043		3,209	(3,209)	
29.	2044		2,304	(2,304)	
30.	2045		1,399	(1,399)	
31.	2046 and Later		492	(492)	
32.	Total (Lines 1 to 31)	2,086,556	854,777	(854,777)	2,086,556

# ANNUAL STATEMENT FOR THE YEAR 2016 OF THE SEPARATE ACCOUNTS OF THE MML Bay State Life Insurance Company ASSET VALUATION RESERVE

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

			1	2	3	4	Basic C	Contribution	Reserv	re 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)
		LONG-TERM BONDS										
1.		Exempt Obligations	245,300,097	XXX	XXX	245,300,097	0.0000		0.000		0.0000	
2.	1	Highest Quality	546,998,180	XXX	XXX	546,998,180	0.0004	218,799	0.0023	1,258,096	0.0030	1,640,995
3.		High Quality	157,668,117	XXX	XXX	157,668,117	0.0019	299,569	0.0058	914,475	0.0090	1,419,013
4.		Medium Quality	3,301,419	XXX	XXX	3,301,419	0.0093	30,703	0.0230	75,933	0.0340	112,248
5.		Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
6.		Lower Quality		XXX	XXX		0.0432		0.1100		0 . 1700	
7.	6	In or Near Default		XXX	XXX		0.0000		0.2000		0.2000	
8.		Total Unrated Multi-class Securities Acquired by Conversion		XXX	XXX		XXX		XXX		XXX	
9.		Total Long-Term Bonds (Sum of Lines 1 through 8)	953,267,813	XXX	XXX	953,267,813	XXX	549,072	XXX	2,248,504	XXX	3,172,256
		PREFERRED STOCK										
10.	1	Highest Quality		XXX	XXX		0.0004		0.0023		0.0030	
11.	2	High Quality		XXX	XXX		0.0019		0.0058		0.0090	
12.	3	Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
13.	4	Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
14.		Lower Quality		XXX	XXX		0.0432		0.1100		0 . 1700	
15.		In or Near Default		XXX	XXX		0.000		0.2000		0.2000	
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	
		SHORT - TERM BONDS										
18.		Exempt Obligations	20,966,588	XXX	XXX	20,966,588	0.000		0.000		0.000	
19.	1	Highest Quality	19,598,093	XXX	XXX	19,598,093	0.0004	7,839	0.0023	45,076	0.0030	58,794
20.		High Quality		XXX	XXX		0.0019		0.0058		0.0090	
21.	3	Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
22.		Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
23.	5	Lower Quality		XXX	XXX		0.0432		0.1100		0 . 1700	
24.	6	In or Near Default		XXX	XXX		0.0000		0.2000		0.2000	
25.		Total Short - Term Bonds (Sum of Lines 18 through 24)	40,564,681	XXX	XXX	40,564,681	XXX	7,839	XXX	45,076	XXX	58,794
		DERIVATIVE INSTRUMENTS										
26.		Exchange Traded		XXX	XXX		0.0004		0.0023		0.0030	
27.	1	Highest Quality	79,566	XXX	XXX	79,566	0.0004	32	0.0023	183	0.0030	239
28.		High Quality		XXX	XXX		0.0019		0.0058		0.0090	
29.		Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
30.	4	Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
31.		Lower Quality		XXX	XXX		0.0432		0.1100		0.1700	
32.		In or Near Default		XXX	XXX		0.0000		0.2000		0.2000	
33.	-	Total Derivative Instruments	79.566	XXX	XXX	79.566	XXX	32	XXX	183	XXX	239
34.		Total (Lines 9 + 17 + 25 + 33)	993.912.060	XXX	XXX	993.912.060	XXX	556.943	XXX	2.293.762	XXX	3,231,289

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

			1	2	3	4	Basic Co	ontribution	Reserve	Objective	Maximum	n Reserve
Line	NAIC			Reclassify		Balance for AVR Reserve	5	6	7	8	9	10
Num-	Desig-		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)
		MORTGAGE LOANS										
		In Good Standing:										
35.		Farm Mortgages - CM1 - Highest Quality			XXX		0.0010		0.0050		0.0065	
36.		Farm Mortgages - CM2 - High Quality			XXX		0.0035		0.0100		0.0130	
37.		Farm Mortgages - CM3 - Medium Quality			XXX		0.0060		0.0175		0.0225	
38.		Farm Mortgages - CM4 - Low Medium Quality			XXX		0.0105		0.0300		0.0375	
39.		Farm Mortgages - CM5 - Low Quality			XXX		0.0160		0.0425		0.0550	
40.		Residential Mortgages - Insured or Guaranteed	16,479,834		XXX	16,479,834	0.0003	4,944	0.0006	9,888	0.0010	16,48
41.		Residential Mortgages - All Other			XXX		0.0013		0.0030		0.0040	
42.		Commercial Mortgages - Insured or Guaranteed			XXX		0.003		0.0006		0.0010	
43.		Commercial Mortgages - All Other - CM1 - Highest Quality			XXX		0.0010		0.0050		0.0065	
44.		Commercial Mortgages - All Other - CM2 - High Quality			XXX		0.0035		0.0100		0.0130	
45.		Commercial Mortgages - All Other - CM3 - Medium Quality .			XXX		0.0060		0.0175		0.0225	
46.		Commercial Mortgages - All Other - CM4 - Low Medium										
		Quality			XXX		0.0105		0.0300		0.0375	
47.		Commercial Mortgages - All Other - CM5 - Low Quality			XXX		0.0160		0.0425		0.0550	
		Overdue, Not in Process:										
48.		Farm Mortgages			XXX		0.0420		0.0760		0.1200	
49.		Residential Mortgages - Insured or Guaranteed			XXX		0.005		0.0012		0.0020	
50.		Residential Mortgages - All Other			XXX		0.0025		0.0058		0.0090	
51.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0005		0.0012		0.0020	
52.		Commercial Mortgages - All Other	,		XXX		0.0420		0.0760		0.1200	
		In Process of Foreclosure:										
53.		Farm Mortgages	,		XXX		0.0000		0 . 1700		0.1700	
54.		Residential Mortgages - Insured or Guaranteed			XXX		0.0000		0.0040		0.0040	
55.		Residential Mortgages - All Other			XXX		0.0000		0.0130		0.0130	
56.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0000		0.0040		0.0040	
57.		Commercial Mortgages - All Other			XXX		0.0000		0.1700		0.1700	
58.		Total Schedule B Mortgages (Sum of Lines 35 through 57)	16,479,834		XXX	16,479,834	XXX	4,944	XXX	9,888	XXX	16,48
59.		Schedule DA Mortgages			XXX		0.0030		0.0100		0.0130	
60.		Total Mortgage Loans on Real Estate (Lines 58 + 59)	16.479.834		XXX	16.479.834	XXX	4,944	XXX	9.888	XXX	16,480

## Asset Valuation Reserve - Equity Component ${f N}$ ${f O}$ ${f N}$ ${f E}$

Asset Valuation Reserve Replications (Synthetic) Assets  ${f N}$   ${f O}$   ${f N}$   ${f E}$ 

### **OVERFLOW PAGE FOR WRITE-INS**

Additional Write-ins for Analysis of Increase in Reserves Line 14

Additi	onal Write-ins for Analysis of Increase in Reserves Line 14						
		1		Ordinary	Group		
			2	3	4	5	6
				Individual	Supplementary		
		Total	Life Insurance	Annuities	Contracts	Life Insurance	Annuities
1404	- Change in surrender charge offset	(91,854)	(86,573)	(5,281)			
1405	<ul> <li>Change in annuitant mortality fluctuation fund</li> </ul>	(3,265)		(3,265)			
1497		, , ,		, , ,			
	overflow page	(95,119)	(86,573)	(8,546)			

#### **SCHEDULE A - VERIFICATION BETWEEN YEARS**

Real Estate

1	Book/adjusted carrying value, December 31 of prior year
2.	
۷.	·
	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, Othorn 15
6.	Total foreign exchange change in book/adjusted graphy van:
	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	18,696,690
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)	99,832
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	4,025
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	2,270,182
8.	Deduct amortization of premium and mortgage interest points and commitment fees	50,530
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)	16,479,834
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	16,479,834
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	16,479,834

#### **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
	5.2 Totals, Part 3, Column 9
6.	Total gain (loss) on disposals, Part 3, Column 19
7.	Deduct amounts received on disposals, Part 3, C mn 7
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

Book/adjusted carrying value, December 31 of prior year	3,828,287,221
Cost of bonds and stocks acquired, Part 3, Column 7	1,835,882,622
Accrual of discount	1,950,498
Unrealized valuation increase (decrease):	
4.1. Part 1, Column 12(9,833,608)	
4.2. Part 2, Section 1, Column 15	
4.3. Part 2, Section 2, Column 13	
4.4. Part 4, Column 11	(24, 180, 837)
Total gain (loss) on disposals, Part 4, Column 19	6,263,847
Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	1,747,155,643
Deduct amortization of premium	3,445,449
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	
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	
Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	3,897,602,259
Deduct total nonadmitted amounts	
Statement value at end of current period (Line 10 minus Line 11)	
	4.1. Part 1, Column 12

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

L T D   Ot	OWNED December 31 of Current Year
I ONG-TERM BONGS AND STOCKS	OWNED December 31 of Current year

		Long-Term Bonds and Sto	T 1	2	3	4
			Book/Adjusted	۷	3	4
D	escription	on	Carrying Value	Fair Value	Actual Cost	Par Value of Bonds
BONDS	1.	United States	452,087,671	453,824,556	451,169,793	442,544,823
Governments	2.	Canada		2,362,697	2,382,049	2,390,000
(Including all obligations guaranteed	3.	Other Countries	3,848,516	3,771,750	3,856,490	3,737,100
by governments)	4.	Totals	458,322,067	459,959,003	457,408,332	448,671,923
U.S. States, Territories and Possessions						
(Direct and guaranteed)	5.	Totals	338,178	338,178	314,504	300,000
U.S. Political Subdivisions of States, Territories and Possessions (Direct and guaranteed)	6.	Totals	140,950	143,354	137,869	105,000
U.S. Special Revenue and Special Assessment Obligations and all Non- Guaranteed Obligations of Agencies and Authorities of Governments and						
their Political Subdivisions	7.	Totals	1,410,742,370	1,414,247,156	1,400,547,398	1,362,442,895
	8.	United States		1,006,934,988	1,009,498,609	987,515,909
Industrial and Miscellaneous, SVO Identified Funds and Hybrid	9.	Canada		19,977,436	19,961,094	19,953,000
Securities (unaffiliated)	10.	Other Countries	81,870,730	82,123,407	82,382,195	81,554,769
	11.	Totals	1,105,574,199	1,109,035,831	1,111,841,898	1,089,023,678
Parent, Subsidiaries and Affiliates	12.	Totals				
	13.	Total Bonds	2,975,117,764	2,983,723,522	2,970,250,001	2,900,543,496
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	922,484,495	922,484,495	730,884,391	
Industrial and Miscellaneous	21.	Canada				
(unaffiliated)	22.	Other Countries				
	23.	Totals	922,484,495	922,484,495	730,884,391	
Parent, Subsidiaries and Affiliates	24.	Totals				
	25.	Total Common Stocks	922,484,495	922,484,495	730,884,391	
	26.	Total Stocks	922,484,495	922,484,495	730,884,391	
	27.	Total Bonds and Stocks	3,897,602,259	3,906,208,017	3,701,134,392	

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

Short-Term Investments

Short-Term invest	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	37,011,389	37,011,389			
Cost of short-term investments acquired	134,755,060	134,755,060			
Accrual of discount	27,667	27,667			
4. Unrealized valuation increase (decrease)					
5. Total gain (loss) on disposals	27,068	27,068			
6. Deduct consideration received on disposals	95,712,528	95,712,528			
7. Deduct amortization of premium	17,763	17,763			
8. 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)	76,090,893	76,090,893			
11. Deduct total nonadmitted amounts					
12. Statement value at end of current period (Line 10 minus Line 11)	76,090,893	76,090,893			

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

#### **SCHEDULE DB - PART A - VERIFICATION BETWEEN YEARS**

Options, Caps, Floors, Collars, Swaps and Forwards

1.	Book/adjusted carrying value, December 31, prior year (Line 9, prior year)	19,252,610
2.	Cost paid/(consideration received) on additions:	
	2.1 Current year paid/(consideration received) at time of acquisition, still open, Section 1, Column 12	
	2.2 Current year paid/(consideration received) at time of acquisition, terminated, Section 2, Column 14	
3.	Unrealized valuation increase/(decrease):	
	3.1 Section 1, Column 17	
	3.2 Section 2, Column 19	2,394,633
4.	Total gain (loss) on termination recognized, Section 2, Column 22	1,952,957
5.	Considerations received/(paid) on terminations, Section 2, Column 15	1,952,957
6.	Amortization:	
	6.1 Section 1, Column 19	
	6.2 Section 2, Column 21	
7.	Adjustment to the book/adjusted carrying value of hedged item:	
	7.1 Section 1, Column 20	
	7.2 Section 2, Column 23	
8.	Total foreign exchange change in book/adjusted carrying value:	
	8.1 Section 1, Column 18	
	8.2 Section 2, Column 20	
9.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4-5+6+7+8)	21,647,243
10.	Deduct nonadmitted assets	
11.	Statement value at end of current period (Line 9 minus Line 10)	21,647,243
	SCHEDULE DB - PART B - VERIFICATION  Futures Contracts	
1.	Book/Adjusted carrying value, December 31 of prior year (Line 6, prior year)	
2.	Cumulative cash change (Section 1, Broker Name/Net Cash Deposits Footnote - Cumulative Cash Change Column)	
3.1	Add:	
	Change in variation margin on open contracts - Highly effective hedges	
	3.11 Section 1, Column 15, current year minus	
	3.12 Section 1, Column 15, prior year	
	Change in variation margin on open contracts - All other	
	3.13 Section 1, Column 18, current year minus	
	3.14 Section 1, Column 18, prior year	
3 2	Add:	
0.2	Change in adjustment to basis of hedged item	
	3.21 Section 1, Column 17, current year to date minus	
	3.22 Section 1, Column 17, prior year	
	Change in amount recognized	
	3.23 Section 1, Column 19, current year to date rous 1	
	3.24 Section 1, Column 19, prior year	
3.3	Subtotal (Line 3.1 minus Line 3.2)	
4.1	Cumulative variation margin on terminated contracts during the year (Section 2, Column 15)	
4.2	Less:	
	4.21 Amount used to adjust basis of hedged item (Section 2, Column 17)	
	4.22 Amount recognized (Section 2, Column 16)	
4.3	Subtotal (Line 4.1 minus Line 4.2)	
5.	Dispositions gains (losses) on contracts terminated in prior year:	
	5.1 Total gain (loss) recognized for terminations in prior year	
	5.2 Total gain (loss) adjusted into the hedged item(s) for terminations in prior year	
6.	Book/Adjusted carrying value at end of current period (Lines 1+2+3.3-4.3-5.1-5.2)	
7.	Deduct total nonadmitted amounts	
8.	Statement value at end of current period (Line 6 minus Line 7)	

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  ${f N} \ {f O} \ {f N} \ {f E}$ 

#### **SCHEDULE DB - VERIFICATION**

Verification of Book/Adjusted Carrying Value, Fair Value and Potential Exposure of all Open Derivative Contracts

		Book/Adjusted Carrying	Value Check
1.	Part A, Section 1, Column 14	21,647,243	
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance		
3.	Total (Line 1 plus Line 2)		21,647,243
4.	Part D, Section 1, Column 5	21,792,571	
5.	Part D, Section 1, Column 6	(145,328)	
6.	Total (Line 3 minus Line 4 minus Line 5)		
		Fair Value Ch	eck
7.	Part A, Section 1, Column 16	21,647,243	
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)		21,647,243
10.	Part D, Section 1, Column 8	21,792,571	
11.	Part D, Section 1, Column 9	(145,328)	
12	Total (Line 9 minus Line 10 minus Line 11)		
		Potential Exposure	e Check
13.	Part A, Section 1, Column 21	8,257,006	
14.	Part B, Section 1, Column 20		
15.	Part D, Section 1, Column 11	8,257,006	
16.	Total (Line 13 plus Line 14 minus Line 15)		

#### **SCHEDULE E - VERIFICATION BETWEEN YEARS**

(Cash Equivalents) 2 Other (a) Total Bonds ...333,363,085 ...333,363,085 1. Book/adjusted carrying value, December 31 of prior year 2. Cost of cash equivalents acquired ... 2,250,456,161 .2,250,456,161 Accrual of discount . Unrealized valuation increase (decrease) ..319,819 .319,819 Total gain (loss) on disposals .2,321,663,995 .2,321,663,995 Deduct consideration received on disposals 7. Deduct amortization of premium. 8. Total foreign exchange change in book/adjusted carrying value. Deduct current year's other than temporary impairment recognized Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9) 262,475,070 262,475,070 10. Deduct total nonadmitted amounts Statement value at end of current period (Line 10 minus Line 11) 262,475,070 262,475,070

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