

ANNUAL STATEMENT

FOR THE YEAR ENDED DECEMBER 31, 2015 OF THE CONDITION AND AFFAIRS OF THE SEPARATE ACCOUNTS OF THE

Massachusetts Mutual Life Insurance Company
NAIC Group Code 0435 0435 NAIC Company Code 65935 Employer's ID Number 04-159085

Organized under the Laws of		(Prior)	. State	of Domicile or Port of E	ntry Massachusetts
Country of Domicile			ed States of Am		
<u> </u>	Inculated [V] Non		04 014100 017111	onou	
Type of Separate Accounts		Insulated []		ID :	00/04/4054
Incorporated/Organized	05/15/1851		Co	ommenced Business _	08/01/1851
Statutory Home Office	1295 State ((Street and N		,	(City o	Springfield , MA, US 01111 r Town, State, Country and Zip Code)
Marin Administration Office	(Olloct and IV	,	1005 04-4- 04		Town, state, sountry and zip souch
Main Administrative Office			1295 State Stre Street and Numl		
(City or	Springfield, MA, US 01111 Town, State, Country and Zip	Code)		(A	413-788-8411 Area Code) (Telephone Number)
Mail Address		•		(*	,, ,
Iviali Address	1295 State Stree (Street and Number or P		,	(City o	Springfield , MA, US 01111 r Town, State, Country and Zip Code)
Primary Location of Books and	d Records		1295 State Stre	eet	
•			Street and Numb		412 700 0411
(City or	Springfield , MA, US 01111 Town, State, Country and Zip	Code)		(A	413-788-8411 vrea Code) (Telephone Number)
Internet Website Address		w	ww.massmutual	.com	
-	Tammi				410 744 0207
Statutory Statement Contact	rammy	y A. Peatman (Name)		,	413-744-6327 (Area Code) (Telephone Number)
	tpeatman@massmutual.com (E-mail Address)				413-226-4086 (FAX Number)
	(,		OFFICERO		, , , , , , , , , , , , , , , , , , , ,
President and Chief			OFFICERS		
Executive Officer					Todd Garett Picken
Secretary _	Pia Denise I	Flanagan		Appointed Actuary _	Douglas Wright Taylor #
Michael Thomas Pollings F	Evacutive Vice President and		OTHER		Malyin Timothy Corbott Evacutive Vice President and
Chief Fina	Executive Vice President and ncial Officer	Michael Robert	Fanning, Execu	tive Vice President	Melvin Timothy Corbett, Executive Vice President and Chief Investment Officer
	ecutive Vice President and nation Officer	Debra Ann Pa	lermino, Execut	ve Vice President	Mark Douglas Roellig, Executive Vice President and General Counsel
Elaine Anne Sarsvnski.	Executive Vice President			tive Vice President, and Chief Actuary	Adnan Omar Ahmed #, Executive Vice President and Chief Human Resources Officer
,					
Roger William C	randall - Chairman		TORS OR TR ark Thomas Ber		Kathleen Ann Corbet - Lead Director
	DeGraffenreidt Jr vidov Goren		Patricia Diaz De ymond Walter L		Robert Alan Essner Jeffrey Marc Leiden #
Cathy Elizal	oeth Minehan	N	Marc Francis Ra	cicot	Laura Jeanne Sen
William I	aylor Spitz		Howard Todd St	itzer	
State of	Massachusetts				
County of	Hampden	SS:			
					orting entity, and that on the reporting period stated above
					s or claims thereon, except as herein stated, and that this and true statement of all the assets and liabilities and of the
					therefrom for the period ended, and have been completed to the extent that: (1) state law may differ; or, (2) that state
					to the best of their information, knowledge and belief
					ng electronic filing with the NAIC, when required, that is ar be requested by various regulators in lieu of or in addition
to the enclosed statement.	ing differences due to electroni	e ming) of the choic	oca statement.	The electronic illing may	soc requested by various regulators in fied or or in addition
Pogor William C	· · · · · · · · · · · · · · · · · · ·		ia Donica Elasa	gan.	Todd Caratt Biolean
Roger William C President and Chief Ex		Р	ia Denise Flana Secretary	yaıı	Todd Garett Picken Treasurer
Outrasile and the second second				a. Is this an original filin	g? Yes [X] No []
Subscribed and sworn to befo day of	re me uns			b. If no,1. State the amendm	ent number
				2 Date filed	

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

ASSETS

			Current Year		Prior Year
		1 General Account Basis	2 Fair Value Basis	3 Total (Cols. 1 + 2)	4 Total
1.	Bonds (Schedule D)		16,893,048,746	16,893,048,746	15,593,342,701
2.	Stocks (Schedule D):				
	2.1 Preferred stocks				
	2.2 Common stocks		39,711,572,950	39,711,572,950	40,518,408,136
3.	Mortgage loans on real estate (Schedule B)		2,815,347	2,815,347	3, 158, 818
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 (\$12,023,121 Schedule E - Part 1), and cash				
	equivalents (\$2,001,105,284 , Schedule E - Part 2)	-	2,013,128,405	2,013,128,405	2,030,627,388
7.	Short-term investments (Schedule DA)		389,343,710	389,343,710	847,296,209
8.	Derivatives (Schedule DB)		26,983,508	26,983,508	65,758,111
9.	Other invested assets (Schedule BA)		718,944,571	718,944,571	595,225,900
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)		59,755,837,237	59,755,837,237	59,653,817,263
13.	Investment income due and accrued		115,769,425	115,769,425	113 , 157 , 197
14.	Receivables for securities		514,039,072	514,039,072	616,978,165
15.	Net adjustment in assets and liabilities due to foreign exchange rates		(88,879)	(88,879)	(12,191)
16.	Aggregate write-ins for other than invested assets		1,041	1,041	501,900
17.	Total (Lines 12 to 16)		60,385,557,896	60,385,557,896	60,384,442,334
	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.	Foreign income tax recoverable		1,041	1,041	1,900
1602.	Receivable from hotel operations				500,000
1603.					
1698.	Summary of remaining write-ins for Line 16 from overflow page				
1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)		1,041	1,041	501,900

LIABILITIES AND SURPLUS

		Current Year			Prior Year	
		1 General Account Basis	2 Fair Value Basis	3 Total (Cols. 1 + 2)	4 Total	
1.	Aggregate reserve for life, annuity and accident and health contracts (Exhibit 3, Line 9999999, Col. 2)		57,554,925,507	57,554,925,507	58,715,406,895	
2.	Liability for deposit-type contracts (Exhibit 4, Line 9, Col. 1)		1,824,261,892	1,824,261,892	496,523,214	
3.	Interest Maintenance Reserve					
4.	Charges for investment management, administration and contract guarantees due or accrued		39,624,764	39,624,764	33,610,433	
5.	Investment expenses due or accrued (Exhibit 1, Line 24)		789,214	789,214	475,690	
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					
	\$199,893,549 accrued expense allowances recognized in					
	reserves)		206,268,736	206,268,736	228,559,394	
11.	Remittances and items not allocated		181,515,026	181,515,026	209,679,904	
12.	Derivatives		5,681,571	5,681,571	3,317,868	
13.	Payable for securities		555,766,973	555,766,973	685, 138, 852	
14.	Payable for securities lending					
15.	Net adjustment in assets and liabilities due to foreign exchange rates					
16.	Aggregate write-ins for liabilities		7,610,592	7,610,592	1,770,281	
17.	Total liabilities (including \$245,893,500 due or accrued net					
	transfers to or (from) the general account)		60,376,444,275	60,376,444,275	60,374,482,531	
18.	Contributed surplus		30,580	30,580	1,481	
19.	Aggregate write-ins for special surplus funds					
20.	Unassigned funds		9,083,041	9,083,041	9,958,322	
21.	Surplus (Lines 18 through 20)		9,113,621	9,113,621	9,959,803	
22.	Totals		60,385,557,896	60,385,557,896	60,384,442,334	
	DETAILS OF WRITE-INS					
1601.	Repurchase agreements		7,273,000	7,273,000		
1602.	Annuitant mortality fluctuation fund		392,051	392,051	380,214	
1603.	Claims in course of settlement		16,620	16,620	(101,178)	
1698.	Summary of remaining write-ins for Line 16 from overflow page		(71,079)	(71,079)	1,491,245	
1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)		7,610,592	7,610,592	1,770,281	
1901.						
1902.						
1903.						
1998.	Summary of remaining write-ins for Line 19 from overflow page					
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:	Sarone rour	
	1.1 Net premiums and annuity considerations for life and accident and health contracts	6,806,862,055	5,922,203,001
	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)	6,806,862,055	5,922,203,001
2.	Transfers on account of deposit-type contracts (including \$	1 250 015 452	242,140,654
3.	Net investment income and capital gains and losses		
4.	Aggregate write-ins for other income		
	Totals (Lines 1.4 to 4)		9,602,663,248
DEDUC		2,722,722,722	0,112,110,211
6.	Transfers from the Separate Account on account of contract benefits:		
	6.1 Death benefits	28,064,489	9,959,783
	6.2 Matured endowments		
	6.3 Annuity benefits		
	6.4 Payments on supplementary contracts with life contingencies		
	6.5 Accident and health benefits		6 054 412 520
	6.6 Surrender benefits and withdrawals for life contracts 7.4 Aggregate write-ins for other transfers from Separate Accounts on account of contract benefits		
7.	Transfers on account of policy loans		16,952,500
	Net transfer of reserves from or (to) Separate Accounts		, ,
	Other transfers from the Separate Accounts:		
	9.1 Federal and foreign income taxes incurred		
	9.2 Change in expense allowances recognized in reserves	(28, 177, 859)	(21,905,540)
	9.3 Aggregate write-ins for other transfers from Separate Accounts	32,995	16,922
10.	Subtotals (Lines 6.1 to 9.3)		7,200,929,884
11.	Fees associated with charges for investment management, administration and contract guarantees		340,739,558
12.	Increase in aggregate reserve for life and accident and health contracts		
13.	Increase in liability for deposit-type contracts	1,327,738,678	246, 141,897
14.	Increase in reserve for future federal income taxes		
15.	Aggregate write-ins for reserves and funds		341
16.	Totals (Lines 10 to 15)		9,602,635,710
17.	Net gain from operations (including \$(46) unrealized capital gains) (Line 5 minus Line 16)	(13, 164)	27,538
	SURPLUS ACCOUNT	0.050.000	0 000 000
	Surplus, December 31, prior year		9,300,600
19.	Net gain from operations (Line 17)		27,538 1,481
20.			,
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)	9,113,621	9,959,803
	DETAILS OF WRITE-INS		-,,
01.301.			
01.302.			
01.303.			
01.398.	Summary of remaining write-ins for Line 1.3 from overflow page		
	Totals (Lines 01.301 thru 01.303 plus 01.398)(Line 1.3 above)		
	Miscellaneous gain		
	Summary of remaining write-ins for Line 4 from overflow page	277	
	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	32,995	16,922
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)	32,995	16,922
1501.	Claims in course of settlement		(55,762)
1502.	Change in annuitant mortality fluctuation fund	11,837	56, 103
	Summary of remaining write-ins for Line 15 from overflow page		
	Totals (Lines 1501 thru 1503 plus 1598)(Line 15 above)	129,635	341
	Capital preservation supplemental reserve		630 , 184
	Common of complicing units in fact line 00 from quartery page		
	Summary of remaining write-ins for Line 23 from overflow page	(863,598)	630 , 184
∠399.	Totals (Lines 2301 thru 2303 plus 2398)(Line 23 above)	(000,000)	000, 184

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ANNUAL STATEMENT FOR THE YEAR 2015 OF THE SEPARATE ACCOUNTS OF THE Massachusetts Mutual Life Insurance Company

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS

_			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		LINES OF DO				111 10	
		1	0	Ordinary			oup T c		and Health	9 Aggregate of All Other
		Total	2 Life Insurance	3 Individual Appuition	4 Supplementary Contracts	5 Life Insurance	6 Annuities	7 Group	8 Other	Lines of Business
1	Transfers to Separate Accounts:	Total	Life insurance	muividuai Amidilles	Supplementary Contracts	Life insurance	Aimuities	Group	Other	Elifes of Dusifiess
1 ''	1.1 Net premiums and annuity considerations for life and accident and health contracts	6.806.862.055	56.857.163	891,454,096		6.794.448	5.851.756.348			
	1.2 Considerations for supplementary contracts with life contingencies	0,000,002,000				,0,754,440	3,001,700,040			
	1.3 Aggregate write-ins for other transfers to Separate Accounts									
	1.4 Totals (Lines 1.1 to 1.3)	6,806,862,055	56,857,163	891,454,096		6,794,448	5,851,756,348			
2	Transfers on account of deposit-type contracts (including	0,000,002,000	30,037,103	091,404,090		0,734,440	3,031,730,040			
۷.	\$	1,359,915,453					1,359,915,453			
3.			0.000.000	(40.070.075)		00.005.000				
	Net investment income and capital gains and losses	(77,348,996)	3,200,600	(42,879,975)		38,365,028	(76,034,649)			
4.	Aggregate write-ins for other income		277							
	Totals (Lines 1.4 to 4)	8,089,428,789	60,058,040	848,574,121		45, 159, 476	7,135,637,152			
DEDUC										
6.	Transfers from the Separate Account on account of contract benefits:									
	6.1 Death benefits	28,064,489	20,211,362			7,853,127				
	6.2 Matured endowments									
	6.3 Annuity benefits	132,301,123		132,289,431			11,692			
	6.4 Payments on supplementary contracts with life contingencies									
	6.5 Accident and health benefits									
	6.6 Surrender benefits and withdrawals for life contracts	7,007,409,189	55,822,687	834,263,366		31,656,297	6,085,666,839			
	6.7 Aggregate write-ins for other transfers from Separate Accounts on account of contract	/ / - /						***************************************		
	benefits				<u> </u>		L			L
7.	Transfers on account of policy loans	16,316,346	16.197.500	159.244		(50,796)	10.398			
8.	Net transfer of reserves from or (to) Separate Accounts	404,395,358	(2,785,022)	(11,364,970)		60,558,224				
9.	Other transfers from the Separate Accounts:		2,700,022	(11,001,010)						
٥.	9.1 Federal and foreign income taxes incurred									
	9.2 Change in expense allowances recognized in reserves	(28, 177, 859)	(1,767,181)	(26,410,678)						
		32.995	(1,767,181)	(20,410,076)			32.995			
40	9.3 Aggregate write-ins for other transfers from Separate Accounts		07, 070, 040	000 000 000		100 010 050				
10.	Subtotals (Lines 6.1 to 9.3)	7,560,341,641	87,679,346	928,936,393		100,016,852	6,443,709,050			
11.		204 742 207	45 000 440	007 070 450		00 044 005	00 554 407			
	guarantees	361,713,387	45,080,142	207,870,153		22,211,625	86,551,467			
12.	Increase in aggregate reserve for life and accident and health contracts	(1, 160, 481, 388)	(72,819,246)	(288,233,742)		(77,069,001)	(722,359,399)			
13.	Increase in liability for deposit-type contracts	1,327,738,678		(10,520)			1,327,749,198			
14.	Increase in reserve for future federal income taxes									
15.	Aggregate write-ins for reserves and funds	129,635	117,798	11,837						
16.	Totals (Lines 10 to 15)	8,089,441,953	60,058,040	848,574,121		45, 159, 476	7,135,650,316			
17.	Net gain from operations (including \$(46) unrealized capital									
	gains) (Line 5 minus Line 16)	(13,164)					(13,164)			
	DETAILS OF WRITE-INS									
01.301.										
01.302.										
01.303.										
01.398.	Summary of remaining write-ins for Line 1.3 from overflow page									
	Totals (Lines 01.301 thru 01.303 plus 01.398) (Line 1.3 above)									
	Miscellaneous gain	277	277							
								•		
					<u> </u>		1	•	1	
	Summary of remaining write-ins for Line 4 from overflow page									
	Totals (Lines 0401 thru 0403 plus 0498) (Line 4 above)	277	277		<u> </u>					
	Totals (Lines 040 Fillio 0403 plus 0490) (Line 4 above)	211	211							
					·				-	
					 		 		+	
06.703.										
	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	32,995					32,995			
					ļ					
	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)	32,995					32,995			
1501.	Claims in course of settlement	117,798	117,798							
	Change in annuitant mortality fluctuation fund	11.837	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11.837						
1502.				11,007				•		
	Summary of remaining write-ins for Line 15 from overflow page				<u> </u>			•		
1599	Totals (Lines 1501 thru 1503 plus 1598) (Line 15 above)	129.635	117.798	11.837						
1000.	1 3 tall (2.1.00 100 100 plub 1000) (Ellio 10 abovo)	120,000	117,730	11,007					i i	i

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR

	ANALIOIO OI IIIC		Ordinary Group				
		'	2	3	4	5	6
		Total	Life Insurance	Individual Annuities	Supplementary Contracts	Life Insurance	Annuities
1.	Reserve Dec. 31 of prior year	58,715,406,895	1,064,061,050	11,329,074,379		1,745,792,568	44,576,478,898
2.	Tabular net premiums and considerations for annuities and supplementary contracts with life contingencies	6,806,862,055	56,857,163	891,454,096		6,794,448	5,851,756,348
3.	Increase or (decrease) from investment results after provision for federal income taxes	(47,519,501)	3,200,600	(42,869,455)		38,365,030	(46,215,676)
4.	Tabular less actual reserve released						
5.	Increase in reserve on account of change in valuation basis						
6.	Other increases (net)	277	277				
7.	Totals (Lines 1 to 6)	65,474,749,726	1,124,119,090	12,177,659,020		1,790,952,046	50,382,019,570
8.	Net transfer of reserves from or (to) Separate Accounts	404,395,358	(2,785,022)	(11,364,970)		60,558,224	357,987,126
9.	Tabular cost	•					
10.	Reserves released by death	28,064,489	20,211,362			7,853,127	
11.	Reserves released by other terminations (net)	7,007,409,189	55,822,687	834,263,366		31,656,297	6,085,666,839
12.	Transfers on account of annuity and supplementary contract payments involving life contingencies	132,301,123		132,289,431			11,692
13.	Charges for investment management, administration and contract guarantees	359,352,943	45,080,142	207,870,153		22,211,625	84,191,023
14.	Aggregate write-ins for other decreases in reserves	(11,698,883)	14,548,117	(26,239,597)		(50,796)	43,393
15.	Total deductions (Lines 8 to 14)	7,919,824,219	132,877,286	1,136,818,383		122,228,477	6,527,900,073
16.	Reserve December 31 of current year	57,554,925,507	991,241,804	11,040,840,637		1,668,723,569	43,854,119,497
	DETAILS OF WRITE-INS						
1401.	Change in surrender charge offset	(28, 177, 859)	(1,767,181)	(26,410,678)			
1402.	Change in annuitant mortality fluctuation fund	11,837		11,837			
1403.	Miscellaneous loss	32,995					32,995
1498.	Summary of remaining write-ins for Line 14 from overflow page	16,434,144	16,315,298	159,244		(50,796)	10,398
1499.	Totals (Lines 1401 thru 1403 plus 1498) (Line 14 above)	(11,698,883)	14,548,117	(26,239,597)		(50,796)	43,393

EXHIBIT OF NET INVESTMENT INCOME

		1	2
			ar Earned During Year
1.	U.S. Government bonds	(a)60,566,23	463,499,199
1.1	Bonds exempt from U.S. tax		
1.2	Other bonds (unaffiliated)	(a)479,569,8	7480,035,10
1.3	Bonds of affiliates	(a)	
2.1	Preferred stocks (unaffiliated)	(b)285,98	6285,986
2.11	Preferred stocks of affiliates		
2.2	Common stocks (unaffiliated)	3, 103, 758, 24	73, 104, 331, 409
2.21	Common stocks of affiliates		
3.	Mortgage loans	214,74	3212,968
4.	Real estate	(d)530,32	(8,534
5	Contract loans		
6	Cash, cash equivalents and short-term investments	9,899,37	'18,899,30
7	Derivative instruments	(10,057,44	(8,313,600
8.	Other invested assets		3135,29
9.	Aggregate write-ins for investment income	15,811,73	15,811,73
10.	Total gross investment income	3,660,714,30	3,664,888,854
11.	Investment expenses		(g)2,551,494
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.	Aggregate write-ins for deductions from investment income		
16.	Total deductions (Lines 11 through 15)		2,551,494
17.	Net investment income (Line 10 minus Line 16)		3,662,337,360
	DETAILS OF WRITE-INS		
0901.	Miscellaneous income		15,811,73
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)	15,811,73	15,811,73
1501.			
1502.			
1503.			
1598.	Summary of remaining write-ins for Line 15 from overflow page		
1599.	Totals (Lines 1501 thru 1503 plus 1598) (Line 15, above)		

(a) Includes \$		accrual of discount less \$	amortization of premium and less \$53,774,411	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 \$		accrual of discount less \$	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 \$	30,888	accrual of discount less \$3,348	amortization of premium and less \$	paid for accrued interest on purchases.
(f) Includes \$		accrual of discount less \$	amortization of premium.	
	I and Separate Acc		investment taxes, licenses and fees, excluding fede	ral 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
		I	2	3	4	5
				Total Realized Capital	Change in	Change in Unrealized
		Realized Gain (Loss)	Other Realized	Gain (Loss)	Unrealized Capital	Foreign Exchange
		On Sales or Maturity	Adjustments	(Columns 1 + 2)	Gain (Loss)	Capital Gain (Loss)
1.	U.S. Government bonds	31,519,113		31,519,113	(58, 456, 069)	
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)					
1.3	Bonds of affiliates					
2.1	Preferred stocks (unaffiliated)	(1,716,357)		(1,716,357)		
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)	1,516,282,527	(676,818)	1,515,605,709	(4,772,995,195)	281,195
2.21	Common stocks of affiliates					
3.	Common stocks of affiliates	(1,169)		(1,169)	5,679	
4.	Real estate	(181, 194)		(181, 194)		
5.	Contract loans					
6.	Cash, cash equivalents and short-term investments	1,562,700	(2,059,481)	(496,781)		(340,443)
7.	Derivative instruments	66,359,163		66,359,163	(29,659,788)	(849,559)
8.	Other invested assets	12,194,454		12,194,454	13,519,786	
9.	Aggregate write-ins for capital gains (losses)		(104,925)	(104,925)		(76,688)
10.	Total capital gains (losses)	1,507,565,048	(5,220,383)	1,502,344,665	(5,242,642,143)	
	DETAILS OF WRITE-INS					
0901.	Capital gain(loss) on foreign currency		(104,925)	(104,925)		(76,688)
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)		(104,925)	(104,925)		(76,688)

EXHIBIT 1 - INVESTMENT EXPENSES

	EXHIBIT 1 - INVESTMENT EXPENSES	1
		Amount
1.	Rent	7 unount
2.	Salaries and wages	
3.	Contributions for benefit plans for employees (a)	
4.	Payments to employees under non-funded benefit plans	
5.	Other employee welfare	
6.	Legal fees and expenses	
7.	Fees of public accountants and consulting actuaries	
8.	Traveling expenses	
9.	Postage, express, telegraph and telephone	
10.	Printing and stationery	
11.	Cost or depreciation of furniture and equipment	
12.	Rental of equipment	
13.	Books and periodicals	
14.	Bureau and association fees	
15.	Insurance, except on real estate	
16.	Miscellaneous losses	
17.	Collection and bank service charges	
18.	Sundry general expenses	
19.	Real estate expenses	43,701
20.	Investment expenses not included elsewhere	416,576
21.	Aggregate write-ins for other investment expenses	
22.	Investment expenses incurred	2,551,494
Recond	ciliation with Exhibit 5	
23.	Investment expenses unpaid December 31, prior year	475,690
24.	Investment expenses unpaid December 31, current year	789,214
25.	Investment expenses paid during year (Lines 22 + 23 - 24) (to Exhibit 5, Line 12)	2,237,970
	DETAILS OF WRITE-INS	
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)	

(a) Includes \$ on account of prior service.

EXHIBIT 2 - INVESTMENT TAXES, LICENSES AND FEES (EXCLUDING FEDERAL INCOME TAXES)

		1
		Amount
1.	Real estate taxes	
2.	State insurance department fees.	
3.	Other state taxes, including \$ for employee	,
4.	U.S. Social Security taxes	
5.	All other taxes	
6.	Taxes, licenses and fees incurred	
Recon	ciliation with Exhibit 5	
7.	Taxes, licenses and fees unpaid December 31, prior year	
8.	Taxes, licenses and fees unpaid December 31, current year	
9.	Taxes, licenses and fees paid during year (Lines 6 + 7 - 8) (to Exhibit 5, Line 13)	

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	2,132,019	2,132,019	
0100002. 80 CSO 5.50% CRVM	27,227,207	27,227,207	
0100003. 80 CSO 5.00% CRVM	257 , 123	257 , 123	
0100004. 80 CSO 4.50% CRVM	599,020,589	599,020,589	
0100005. 80 CSO 4.00% CRVM	100,348,542	100,348,542	
0100006. 2001 CSO 4.00% CRVM	10,870,968	10,870,968	
0100007. 2001 CSO 3,50% CRVM	2,821,413	2,821,413	
0100008. 80 CSO Account Value	1,885,079,566	223, 194, 595	1,661,884,971
0100009. 2001 CSO Account Value	32,207,946	25,369,348	6,838,598
0199999. Life Insurance: Totals	2,659,965,373	991,241,804	1,668,723,569
0200001. Deferred Annuity 4.75% to 10.00% CARVM	10,976,168,933	10,976,168,933	
0200002. Annuity Reserve	42,041,869,576	64,671,704	41,977,197,872
0200003. Annuity Reserve 1951 to 1970 5.50% GA MBI			28,380
0200004. Group Home Office and Field Plans	1,876,893,245		1,876,893,245
0299999. Annuities: Totals	54,894,960,134	11,040,840,637	43,854,119,497
9999999. Totals (to Page 3, Line 1)	57,554,925,507	12,032,082,441	45,522,843,066

EXHIBIT 3 - INTERROGATORIES

1.1	Has the reporting entity ever issued both participating and non-participating variable life insurance contracts?	Υ	es [X] N	No []	
2.1	Does the reporting entity at present issue both participating and non-participating variable life insurance contracts?	Υ	es [X] N	No []	
2.2	If not, state which kind is issued						
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

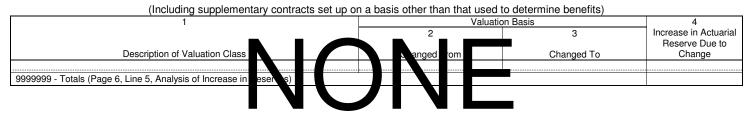


EXHIBIT 4 - DEPOSIT TYPE CONTRACTS

	1	2	3	4	5 Dividend	6
	Total	Guaranteed Interest Contracts	Annuities Certain	Supplemental Contracts	Accumulations or Refunds	Premium and Other Deposit Funds
	496,523,214	250,052,208				246,471,006
Balance at the beginning of the year	490,525,214	250,052,206				240,471,000
Deposits received during the year	1,911,911,974	250,000,000				1,661,911,974
Investment earnings credited to account	(29,816,331)	1,071,903				(30,888,234)
Other net change in reserves						
5. Fees and other charges assessed	2,360,444					2,360,444
6. Surrender charges						
7. Net surrender or withdrawal payments	551,996,521	251,016,250				300,980,271
Other net transfer to or (from) general account						
9. Balance at the end of current year (Lines 1+2+3+4-5-6-7-8)	1,824,261,892	250,107,861				1,574,154,031

EXHIBIT 5 - RECONCILIATION OF CASH AND INVESTED ASSETS

	DEVELOPMENT OF INCREASE IN CASH	1 Amount
1.	Transfers to Separate Accounts on account of:	
	Net premiums and considerations for annuities and supplementary contracts with life contingencies	
2.	1.2 Aggregate write-ins for other transfers to Separate Accounts Deposits on deposit-type contract funds and other liabilities without life or disability contingencies.	
3.	Investment income collected	
4.	Consideration on disposal of short-term bonds net of purchases	
5. e	Consideration on disposal of investments (excluding short-term bonds)	
6. 7.	Aggregate write-ins for other increases in funds from operations	
8.	Cost of investments acquired (excluding short-term bonds)	32,611,936,294
9.	Transfers from Separate Accounts on account of contract benefits:	
	9.1 Death benefits	
	9.2 Matured endowments 9.3 Annuity benefits	
	9.4 Supplementary contract benefits with life contingencies	
	9.5 Accident and health benefits	
	9.6 Surrender benefits and withdrawals for life contracts	
	9.7 Policy loans (net)	404 395 358
	9.9 Aggregate write-ins for other transfers from Separate Accounts on account of contract benefits	
10.	Other transfers from Separate Accounts:	
	10.1 Federal income taxes	
11.	10.2 Aggregate write-ins for other transfers from Separate Accounts	
12.	Investment expenses (Exhibit 1, Line 25)	2,237,970
12.1	Fees associated with investment management, administration and contract guarantees	
13.	Investment taxes, licenses and fees, excluding federal income taxes (Exhibit 2, Line 9)	
14.	Total (Lines 8 to 13)	
15. 16.	Funds from operations (Line 7 minus Line 14) Surplus contributed or (withdrawn) during year	
17.	Aggregate write-ins for other changes in funds	
18.	Total funds (includes \$	9,038,729
19.	Increase in payable for investments acquired, net of receivable for investments sold	
20. 21.	Decrease in policy loans	
22.	Increase in cash (Line 18 to 21)	
	RECONCILIATION BETWEEN YEARS	
23.	Cash and invested assets, December 31st of prior year.	
24.	Increase in cash (Line 22)	
25. 26.	Adjusted cost of assets disposed of.	
27.	Increase in policy loans.	
28.	Accrual of discount less amortization of premium	27,540
29.	Depreciation on real estate and other invested assets	
30. 31.	Increase in net unrealized gains Aggregate write-ins for other reconciling items	
32.	Cash and invested assets, December 31st of current year	59,755,837,237
	DETAILS OF WRITE-INS	
	Summary of remaining write-ins for Line 1.2 from overflow page	
01.299.	Totals (Lines 01.201 thru 01.203 plus 01.298) (Line 1.2 above)	
		
	Summary of remaining write-ins for Line 6 from overflow page	
	Totals (Lines 0601 thru 0603 plus 0698) (Line 6 above)	
00 000		
	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	
09.998. 09.999. 10.201.	Summary of remaining write-ins for Line 9.9 from overflow page	28, 164, 878
09.998. 09.999. 10.201. 10.202.	Summary of remaining write-ins for Line 9.9 from overflow page	
09.998. 09.999. 10.201. 10.202. 10.203.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss	
09.998. 09.999. 10.201. 10.202. 10.203. 10.298.	Summary of remaining write-ins for Line 9.9 from overflow page	
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)	863,598 32,718 (26,534,871)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)	863,598 32,718 (26,534,871)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703.	Summary of remaining write-ins for Line 9.9 from overflow page	863,598 32,718 (26,534,871)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above)	863,598 32,718 (26,534,871)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703. 1798.	Summary of remaining write-ins for Line 9.9 from overflow page	863,598 32,718 (26,534,871) 2,526,323
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss	863,598 32,718 (26,534,871) 2,526,323
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss	863,598 32,718 (26,534,871) 2,526,323
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 2198.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve. Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss Summary of remaining write-ins for Line 21 from overflow page	863,598 32,718 (26,534,871) 2,526,323 (104,925)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 2198.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss Summary of remaining write-ins for Line 21 from overflow page Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)	863,598 32,718 (26,534,871)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 2198. 2199.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated Capital preservation supplemental reserve. Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss Summary of remaining write-ins for Line 21 from overflow page	863,598 32,718 (26,534,871) 2,526,323 (104,925)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 2198. 2199. 3101. 3102. 3103.	Summary of remaining write-ins for Line 9.9 from overflow page Totals (Lines 09.901 thru 09.903 plus 09.998) (Line 09.9 above) Change in remittances and items not allocated. Capital preservation supplemental reserve. Miscellaneous income / loss Summary of remaining write-ins for Line 10.2 from overflow page. Totals (Lines 10.201 thru 10.203 plus 10.298) (Line 10.2 above) Summary of remaining write-ins for Line 17 from overflow page. Totals (Lines 1701 thru 1703 plus 1798) (Line 17 above) Foreign currency loss Summary of remaining write-ins for Line 21 from overflow page. Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)	863,598 32,718 (26,534,871) 2,526,323 (104,925)
09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 2198. 2199. 3101. 3102. 3103. 3198.	Summary of remaining write-ins for Line 9.9 from overflow page	863,598 32,718 (26,534,871) 2,526,323

EXHIBIT 6 - GUARANTEED INSURANCE AND ANNUITY PRODUCTS

	1	2
	Amount	Percent of Total
Aggregate reserve for life, annuity and accident and health contracts (Included in Exhibit 3):		
1.1 Life insurance		
1.2 Annuities		
1.3 Supplementary contracts with life contingencies		
1.4 Accident and health		
1.5 Miscellaneous reserves		
1.6 Total		
2. Liability for deposit-type contracts (included in Exhibit 4):		
2.1 Guaranteed interest contracts	250,107,861	C
2.2 Annuities certain		
2.3 Supplemental contracts		
2.4 Dividend accumulations or refunds		
2.5 Premium and other deposit funds		
2.6 Total	250,107,861	(
3. Other liabilities (included in Page 3, Lines 4, 10, 13 & 14)		
4. Total liabilities associated with guarantees (Lines 1.6 + 2.6 + 3)	250,107,861	0
Total liabilities not associated with guarantees	60,126,336,414	99
6. Total Separate Accounts liabilities (Lines 4 + 5 = Page 3, Line 17)	60,376,444,275	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.

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
Non-guaranteed Retirement Services SIAs	29,060,058,077	.NO	137,409		
Separate Account Guaranteed Interest Contract	16,312,358,894	YES	2,632		
Individual Variable Annuity	11, 188, 314, 160	YES			
Stable Value Bank-owned Life Insurance	1,772,170,842	YES			
Individual Variable Universal Life	999,308,612	YES	24		
Capital Preservation	559,759,729	YES			
Alpha-Backed Note Separate Account	292,202,343	YES			
Corporate-owned Life Insurance	82,999,372	YES			
Group Variable Universal Life	61,764,090	YES			
Individual Immediate Variable Annuity	50,496,888	YES			
Supplemental Account					5,563,743
Cornerstone Hotel Income Equity Fund	561,146	NO			
Included in the Separate Account Assets total are					
fifteen contracts totaling \$198,744,636 that are					
non-insulated, exclusive of seed money and					
unsettled fees and expenses. Total MassMutual					
separate account assets are \$60,385,557,896 at					
12/31/15. These fifteen non-insulated contracts					
represent 0.33% of MassMutual's separate account					
balance at 12/31/15. Given the immateriality of					
the balances, we are disclosing the existence of					
these fifteen non-insulated contracts, but are not					
preparing a separate green book blank.					
Totals	60,385,557,896	XXX	140,065		5,563,743

Note: Additional Required Surplus Amounts is defined as additional or permanent surplus that is required to be retained in the

1.02	Did the reporting entity remit seed money, other fees and exp current year?	· 			Yes [X] No []
1.03	If yes, provide information on the total gross amount of seed remitted to the general account during the current year (these	money, other fees and expense	es or additional required ted in the seed money to	I surplus amounts otals in 1.01):		
			1.031 Seed Mor	ney	\$	24 , 120
			1.032 Other Fee	s and Expenses	\$	
			1.033 Additional	Required Surplus Amoun	nts\$	
1.04	Did the reporting entity receive seed money from the general				Yes [X] No []
1.05	If yes, provide information on the total gross amount of seed remitted in the current year, include the gross amounts in bo		year: (If amounts were b	ooth received and		
	remitted in the current year, include the gross amounts in bo	iii 1.031 and 1.031.)	1 0E1 Cood Mor	ney Received	¢.	54 700
			1.051 Seed Moi	ley neceiveu	Ф	
1.06	Does the reporting entity consider any of the seed money refl	ected in separate accounts to I	oe insulated from the ge	eneral account? Yes	[] No [)	(1 N/A [)
	, , , , , , , , , , , , , , , , , , , ,	·	J			
1.07	If yes, provide information on the amount of seed money the	reporting entity considers insula	ated from the general a	ccount:		
.071	Insulated Seed Money				\$	
1.08	Does the reporting entity have a policy for repatriating seed n	noney or remitting fees and eyr	senses due and addition	nal required surplus		
1.00	amounts to the general account:	ioney or remitting locs and exp	ocises due and addition	iai requirea sarpias		
	•		1.081 Seed Money		Yes [X] No []
			1.082 Other Fees an	d Expenses	-] No []
			1.083 Additional Rec	uired Surplus Amounts	Yes [X] No []
1.09	Provide detail on the time duration for which seed money, oth	or food and avnances due to the	no general account and	additional required		
1.09	surplus amounts have been held in the separate account:	ier rees and expenses due to tr	ne general account and	additional required		
		1	2	3		
			Fees and Expenses			
		Coord Marrow	Due to the	Additional Required		
	1.224	Seed Money	General Account			
	1.091 Under 1 Year					
	1.092 1 Year - 3 Years					
	1.093 Over 3 Years - 5 Years					
				5,563,743 5,563,743		

1.101 Seed Money...

Yes [

] No [X] N/A [

GENERAL INTERROGATORIES

1.11	additional required surplus amounts that are retained		1.111 Seed Money 1.112 Other Fees and	Expensesired Surplus Amounts	Yes [X] No [] N/A []
Senarat	e Account Products with General Account Guarante	200	1.113 Additional Requ	irea Surpius Amounts	res [x] NO [] N/A []
2.1	Does the reporting entity have products with guarante	es provided by the general ac	ccount?		Yes [X] No []
2.2	If yes, what is the current total maximum guarantee th	e general account would prov	vide to the separate accour	nt?	
2.3	Has the separate account collected amounts from the	general account within the pa	ast five years related to sep	parate account guarantees	;? Yes [X] No []
2.4	If yes, provide detail on these guarantees paid by the	general account:			
		1	2		
	2.401 As of December 31, 2	Year	Amount		
	2.401 As of December 31, 2	2015 2014	2.099.135		
	2.403 As of December 31, 2	2013 \$	2,287,116		
		2012 \$			
	2.405 As of December 31, 2				
2.5	To compensate the general account for the risk taken account remit risk charges to the general account rel				
2.6	If yes, identify the separate account products with risk that product is reviewed and opined upon:	charges that are remitted to	the general account and wh	nether the risk charge for	
	1	1 2)	T	3
	Product Identifier with Risk Charges	Risk Charge Reviewe		Opinion on	ndividual who Provided Risk Charges
	Capital Preservation	Yes			tuary
	Separate Account Guaranteed Interest Contract	Yes			tuary
	Soparate Associate dual articles interest contract	No; the risk charges asso	ociated with this product		uui y
		are reviewed for reasonable the appropriate actuary, by			
		these product risk charges	s is required by the NAIC.		
	Individual Immediate Variable Annuity	No; the risk charges asso			
		are reviewed for reasonabl	eness and accuracy by		
		the appropriate actuary, by these product risk charges			
	Individual Variable Annuity				
				<u> </u>	
2.7	Provide detail on the risk charges paid to the general	account related to separate a	account guarantees for the p	past five years:	
		1	2		
		Year	Amount		
	2.701 As of December 31, 2 2.702 As of December 31, 2				
	2.703 As of December 31, 2				
	2.704 As of December 31, 2				
	2.705 As of December 31, 2	011 \$	48,728,912		
Investm 3.1	ent Directive of Separate Account Activity Does the reporting entity have products classified with	in the senarate account for w	which the investment direction	ve is not determined by th	۵
0.1	contract holder? (Situations in which the investments contract holder; however, having the contract holder	directive mirrors the general	I account would not be cons	sidered determined by the	
3.2	If yes, if these investments would have been included limitations imposed on the general account?				Yes [] No [X] N/A []
3.3	Provide detail on the separate account investment por	tfolio and state investment lin	mitations (This includes the	e combined separate	
0.0	account and general investments, excluding separate				
	1		2	3 Combined	
	Investment Type		State Investment Limitation	Investment (Separate and General Account)	
	investment Type				
					
Allocation 4.1	on of Investment Proceeds of Separate Account Ac Does the reporting entity have separate account asset		f investment proceeds (net	of contract fees and	
	assessments) are attributed to a contract holder? (The	nis should identify any situation	ons where there is a ceiling	on investment performance	V F V 3 N F 3
	results.)				

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
				Reinvested
			Transferred to	Within the
	Net Investment	Attributed to	General	Separate
Product Identifier	Proceeds	Contract Holder	Account	Account
Non-guaranteed Retirement Services SIAs	(123,415,719)	(123,423,588)	6,720	1,149
Separate Account Guaranteed Interest Contract	(40,991,205)	(40,991,200)		(5)
Alpha-Backed Note Separate Account	6,099,232	1,071,903		5,027,329
Capital Preservation	920,430	920,430		
Supplemental Account	32,105	53, 135		(21,030)

4.3	For items reinvested within the Separat directives of the general account?			n accordance with investment	Yes []	No [Х]	N/A []
4.4	If no, does the reporting entity have a st account?			ment proceeds within the separate	Yes [Х]	No []	N/A []
4.5	Did the reinvestment of investment production portfolio that exceeded the state investment.	ceeds within the separate stment limitations imposed	account result with the compard on the general account?	ny having a combined investment	Yes []	No [Х]	N/A []
/leasu i 5.1	ement of Separate Account Assets Does the reporting entity report all sepa	arate account assets at fai	ir value?			Ye	es [X]	No []
5.2	For items not reported at fair value, doe measurement methods?	es the reporting entity reporting	ort separate account assets at a	amortized cost, and/or under different						
	model of the model			5.21 Amortized Cost			-	-	No [X No [X	-
5.3	If other measurement methods are used									
5.4	Identify the assets measured at fair valuassets measured under each measure	ue, amortized cost or anot								
		Description	1 Amount	2 Percentage						
	5.41 Fair Value		\$60,385,557,896							
	5.42 Amortized	d Cost	\$	%						
	5.43 Other Mea	asurement Methods	\$	%						
5.5	For the assets not measured at fair valugain or loss that would have been reco			fair value and identify the unrealized						
	Assets Held at Amortized Cost	Fair Value	Unrecorded Unrealized Gain/Loss							
	5.51 \$	\$	\$							
	1	2	3							
	Assets Held at Other Measurement Method	Fair Value	Unrecorded Unrealized Gain/Loss							
	5.52 \$	\$								
Securit 6.1	ies Lending Transactions Within Sepa Does the reporting entity engage in sec	rate Accounts								
		curities lending transaction	ns with separate account assets	?		Ye	es []	No [X]
6.2	If yes, does the reporting entity have wr			.?						
6.2 6.3		ritten policies and procedu	ures for such transactions?		Yes []	N/A [Х]
	If yes, does the reporting entity have wr Does the reporting entity obtain approve that occur with separate account asse	ritten policies and procedual, or otherwise provide notes?	ures for such transactions?	egarding securities lending transactions	Yes []		Х]
	If yes, does the reporting entity have wr Does the reporting entity obtain approve that occur with separate account asset Are all securities lending transactions re	ritten policies and procedulal, or otherwise provide notes?	ures for such transactions? otification to contract holders, re	egarding securities lending transactions	Yes [Yes [Yes []	No []	N/A [X]
6.3	If yes, does the reporting entity have wr Does the reporting entity obtain approve that occur with separate account asse	ritten policies and procedulal, or otherwise provide notes?	otification to contract holders, re	egarding securities lending transactions	Yes [Yes [Yes []	No []	N/A [X]
6.3	If yes, does the reporting entity have wr Does the reporting entity obtain approve that occur with separate account asse Are all securities lending transactions re Provide a description of the reporting en	al, or otherwise provide notes? eported on balance sheet intity's securities lending treed by the general accounterparate account transactions.	otification to contract holders, reconstructions?	egarding securities lending transactions identifying any variations from the secu	Yes [Yes [Yes [Yes []	No [No []	N/A [N/A [X]
6.36.46.5	If yes, does the reporting entity have wr Does the reporting entity obtain approva that occur with separate account asse Are all securities lending transactions re Provide a description of the reporting er lending transaction program administer	al, or otherwise provide notes? eported on balance sheet intity's securities lending treed by the general accounterparate account transactions.	otification to contract holders, reconstructions?	egarding securities lending transactions identifying any variations from the secu	Yes [Yes [Yes [urities]	No [No []	N/A [N/A [N/A [X] X]
6.36.46.5	If yes, does the reporting entity have wr Does the reporting entity obtain approva that occur with separate account asse Are all securities lending transactions re Provide a description of the reporting er lending transaction program administer	al, or otherwise provide notes?eported on balance sheet nitity's securities lending treated by the general accounterparate account transactivithin the separate account	otification to contract holders, recommendations?? ransaction program, specifically nt. ions by separate account product and the percentage of separate	egarding securities lending transactions identifying any variations from the secu	Yes [Yes [Yes [urities]	No [No []	N/A [N/A [N/A [X] X]
6.36.46.5	If yes, does the reporting entity have wr Does the reporting entity obtain approve that occur with separate account asse Are all securities lending transactions re Provide a description of the reporting en lending transaction program administe Provide detail on the current status of s 6.61 Amount of any loaned securities we	al, or otherwise provide notes?eported on balance sheet nitity's securities lending treated by the general accounterparate account transactivithin the separate account	otification to contract holders, recommendations?? ransaction program, specifically nt. ions by separate account product and the percentage of separate	egarding securities lending transactions identifying any variations from the secu	Yes [Yes [Yes [Yes [Ves []	No [No [1 1	N/A [N/A [X] X] X]

GENERAL INTERROGATORIES

			9					
	6.63 Detail on collate	eral received:						
	C CO1 Aggregat	a Amazunt Call	staral Daggiyad					
	6.631 Aggregate	e Amount Con	alerai Received		0.0	011 Onen	φ	
						311 Open 312 30 Days or Less		
						313 31 to 60 Days		
					6.6	314 61 to 90 Days	φ \$	
						315 Greater than 90 Days		
						316 Total Collateral Received		
	6.632 The aggre	egate fair value	of all securities acquired	from the sale, trade or us	e of the accepted collater	al (reinvested collateral)	\$	
	6.633 Narrative		out sources and uses of co					
	6.634 Collateral							
				,				
6.7	For the reporting ent	ity's security le	nding program state the ar	mount of the following as	December 31 of the curre	ent year:		
	6.71					m of Schedule DL, Parts 1	\$	
	6.72	Total book ac	ljusted/carrying value of re	invested collateral assets	reported on Schedule DI	_, Parts 1 and 2 (Sum of		
	6.73	Total payable	for securities lending repo	orted on the liability page ((Page 3, Line 14, Column	3)	.\$	
	·							
7.1	Funding Agreements Does the reporting e	ntity report Fed	leral Home Loan Bank (FF	ILB) funding agreements	within the separate accor	unt?	Yes [] No [X]
7.2	Provide detail on the	elements that	support the classification of	of FHLB funding agreeme	ents within the separate a	ccount		
7.3	Provide detail regard	ling the FHLB	unding agreements classit	fied within the separate a	ccount:			
		1	2	3	4			
		it of FHLB urchased or	Amount of Collateral Pledged to the	Total Borrowing or Funding Capacity	Total Reserves Related to FHLB	¹		
		wned	Fledged to the FHLB	Currently Available	Agreements			
	\$		\$	\$	\$			
7.4			ntended use of funding.	a general description on t	the nature of the agreeme	ent, type of funding (lines of		
			SAP Financial Stateme	nts (This disclosure is a	pplicable to all reportin	g entities regardless if they		
file G/ 8.1	AAP financial stateme Does the reporting e		financial statements?				Yes [] No [X]
		,					100 [, 110 [X]
8.2			parate account reporting re					
			that are classified within the required to be reported with					
	all of the following of	onditions mus	t be met to receive separat	te account reporting class	sification under GAAP:	Yes [X] No [] N/A [
			rate account is legally reco tate insurance laws, federa			d, approved, and regulated		
		e enterprise (th	te account assets supportination, the contract holder is			the general account liabilities the assets held in the		
		e separate acc				vest the contract holder's or in accordance with specific		
	d. Investment Perf	ormance - All	investment performance, n	et of contract fees and as	ssessments, must as a re	sult of contractual, statutory,		

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
Alpha-Backed Note Separate Account	GAAP GIA classification due to investment performance
Capital Preservation	GAAP GIA classification due to investment performance
Separate Account Guaranteed Interest Contract	GAAP GIA classification due to investment performance
Stable Value Bank-owned Life Insurance	GAAP GIA classification due to investment performance
Supplemental Account	GAAP GIA classification due to investment performance
Cornerstone Hotel Income Equity Fund	Same as GAAP
Corporate-owned Life Insurance	Same as GAAP
Group Variable Universal Life	Same as GAAP
Individual Immediate Variable Annuity	Same as GAAP
Individual Variable Annuity	Same as GAAP
Individual Variable Universal Life	
Non-guaranteed Retirement Services SIAs	Same as GAAP
•	

Interest Maintenance Reserve NONE

Interest Maintenance Reserve - Amortization $N\ O\ N\ E$

Asset Valuation Reserve - Default Component NONE

Asset Valuation Reserve - Equity Component NONE

Asset Valuation Reserve Replications (Synthetic) Assets NONE

OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Liabilities Line 16

		Current Year			
	1	2	3	4	
	General Account	Fair Value	Total		
	Basis	Basis	(Cols. 1 + 2)	Total	
1604. Derivatives accrued interest on swaps		(71,079)	(71,079)	1,491,245	
1697. Summary of remaining write-ins for Line 16 from overflow page		(71,079)	(71,079)	1,491,245	

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

		1		Ordinary			Group	
			2	2 3 4		5	6	
				Individual	Supplementary			
		Total	Life Insurance	Annuities	Contracts	Life Insurance	Annuities	
1404.	Claims in course of settlement	117,798	117,798					
1405.	Change in policy loans	16,316,346	16, 197,500	159,244		(50,796)	10,398	
1497.	Summary of remaining write-ins for Line 14 from overflow page	16,434,144	16,315,298	159,244		(50,796)	10,398	

Additional Write-ins for Exhibit 5 Line 10.2	
	1
	Amount
10.204. Change in derivative premium	(16,738,216)
10.205. Repurchase agreements	(7,273,000)
10.206. Changes in other transfers to general account due or accrued	(2,022,796)
10.207. Receivable from hotel operations	(500,000)
10.208. Foreign income tax recoverable	(859)
10.297. Summary of remaining write-ins for Line 10.2 from overflow page	(26,534,871)

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	(181, 194)
5.	Deduct amounts received on disposals, Part 3, Column 15	(181,194)
6.	Total foreign exchange change in book/adjusted carrying value:	
	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	3, 158, 818
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)	
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	
5.	Unrealized valuation increase (decrease):	
	5.1 Totals, Part 1, Column 9	.5,679
	5.2 Totals, Part 3, Column 8	5,679
6.	Total gain (loss) on disposals, Part 3, Column 18	(1,169)
7.	Deduct amounts received on disposals, Part 3, Column 15	347,981
8.	Deduct amortization of premium and mortgage interest points and commitment fees	
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)	2,815,347
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	2,815,347
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	2,815,347

SCHEDULE BA - VERIFICATION BETWEEN YEARS

Other Long-Term Invested Assets

1.	Book/adjusted carrying value, December 31 of prior year	595,225,900
2.	Cost of acquired:	
	2.1 Actual cost at time of acquisition (Part 2, Column 8)33,823,17	2
	2.2 Additional investment made after acquisition (Part 2, Column 9)	2165,978,774
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 1324,389,39	5
	5.2 Totals, Part 3, Column 9(10,869,60	9)13,519,786
6.	Total gain (loss) on disposals, Part 3, Column 19	12,194,454
7.	Deduct amounts received on disposals, Part 3, Column 16	67,974,343
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)	718,944,571
12.	Deduct total nonadmitted amounts	
13.	Statement value at end of current period (Line 11 minus Line 12)	718,944,571

SCHEDULE D - VERIFICATION BETWEEN YEARS

Bonds and Stocks

1.	Book/adjusted carrying value, December 31 of prior year	56,111,750,837
2.	Cost of bonds and stocks acquired, Part 3, Column 7	
3.	Accrual of discount	
4.	Unrealized valuation increase (decrease):	
	4.1. Part 1, Column 12(447,037,127)	
	4.2. Part 2, Section 1, Column 15	
	4.3. Part 2, Section 2, Column 13(3,267,837,105)	
	4.4. Part 4, Column 11	(5,226,507,820)
5.	Total gain (loss) on disposals, Part 4, Column 19	1,424,575,117
6.	Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	28,214,648,526
7.	Deduct amortization of premium	
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	1,877,812
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	
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	56,604,621,696
11.	Deduct total nonadmitted amounts	
12.	Statement value at end of current period (Line 10 minus Line 11)	56,604,621,696

SCHEDULE D - SUMMARY BY COUNTRY

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

Long-Term Bonds and Stocks OWNED December 31 of Current Year							
			1	2	3	4	
ח	escription	on	Book/Adjusted Carrying Value	Fair Value	Actual Cost	Par Value of Bonds	
BONDS	1.	United States	4,612,803,846	4,612,803,846	4,627,307,065	4,595,620,932	
Governments	2.	Canada	1 1 1	3,053,571	2,950,836	2,395,000	
(Including all obligations guaranteed	3.	Other Countries	84,229,274	84,229,274	88,134,220	83,949,635	
by governments)	4.	Totals	4,700,086,691	4,700,086,691	4,718,392,121	4,681,965,567	
U.S. States, Territories and Possessions			, , ,	, , ,	, , ,	, , ,	
(Direct and guaranteed)	5.	Totals	56,534,948	56,534,948	53,964,003	45,455,000	
U.S. Political Subdivisions of States, Territories and Possessions (Direct and guaranteed)	6.	Totals	9,481,509	9,481,509	8,775,899	8,260,000	
U.S. Special revenue and special assessment obligations and all non- guaranteed obligations of agencies and authorities of governments and							
their political subdivisions	7.		2,174,367,906	2,174,367,906	2,179,857,882	2,079,646,439	
	8.	United States	8,354,478,028	8,354,478,028	8,642,106,668	8,373,550,902	
Industrial and Miscellaneous and	9.	Canada		104, 154, 586	110,402,054	107,648,000	
Hybrid Securities (unaffiliated)	10.	Other Countries	1,493,945,078	1,493,945,078	1,537,868,602	1,507,429,689	
	11.	Totals	9,952,577,692	9,952,577,692	10,290,377,324	9,988,628,591	
Parent, Subsidiaries and Affiliates	12.	Totals					
	13.	Total Bonds	16,893,048,746	16,893,048,746	17,251,367,229	16,803,955,597	
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	39,691,156,814	39,691,156,814	39,642,156,656		
Industrial and Miscellaneous	21.	Canada	6,054,696	6,054,696	6,824,070		
(unaffiliated)	22.	Other Countries	14,361,440	14,361,440	13,038,328		
	23.	Totals	39,711,572,950	39,711,572,950	39,662,019,054		
Parent, Subsidiaries and Affiliates	24.	Totals					
	25.	Total Common Stocks	39,711,572,950	39,711,572,950	39,662,019,054		
	26.	Total Stocks	39,711,572,950	39,711,572,950	39,662,019,054		
	27.	Total Bonds and Stocks	56,604,621,696	56,604,621,696	56,913,386,283		

SCHEDULE DA - VERIFICATION BETWEEN YEARS

Short-Term Investments

	Short-Term investments	2	2	1	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	847,296,209	847,296,209			
Cost of short-term investments acquired	2,824,695,140	2,824,695,140			-
Accrual of discount	21,902	21,902			-
Unrealized valuation increase (decrease)					
5. Total gain (loss) on disposals	(1,863,631)	(1,863,631)			
Deduct consideration received on disposals	3,280,462,119	3,280,462,119			
7. Deduct amortization of premium	3,348	3,348			
Total foreign exchange change in book/adjusted carrying value	(340,443)	(340,443)			
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)		389,343,710			
11. Deduct total nonadmitted amounts					
12. Statement value at end of current period (Line 10 minus Line 11)	389,343,710	389,343,710			

⁽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)		62,440,243
2.	Cost paid/(consideration received) on additions:		
	2.1 Current year paid/(consideration received) at time of acquisition, still open, Section 1, Column 12	(439,251)	
	2.2 Current year paid/(consideration received) at time of acquisition, terminated, Section 2, Column 14	2,353,264	1,914,013
3.	Unrealized valuation increase/(decrease):		
	3.1 Section 1, Column 17	10 , 173 , 279	
	3.2 Section 2, Column 19	(33,637,002)	(23,463,723)
4.	Total gain (loss) on termination recognized, Section 2, Column 22		43,489,928
5.	Considerations received/(paid) on terminations, Section 2, Column 15		62 , 142 , 155
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	898,624	
	8.2 Section 2, Column 20	(1,834,993)	(936,369)
9.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4-5+6+7+8)		21,301,937
10.	Deduct nonadmitted assets		
11.	Statement value at end of current period (Line 9 minus Line 10)		21,301,937

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 - 0	Cumulative Cash Char	nge 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	(2,682,236)		
	3.14 Section 1, Column 18, prior year	3,426,982	(6, 109, 218)	(6,109,218)
3.2	Add:			
	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 minus	(2,682,236)		
	3.24 Section 1, Column 19, prior year	3,426,982	(6, 109, 218)	(6,109,218)
3.3	Subtotal (Line 3.1 minus Line 3.2)			
4.1	Cumulative variation margin on terminated contracts during the year (Section 2, C	olumn 15)	22,869,235	
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)	22,869,235	22,869,235	
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			
	$5.2\ \text{Total gain (loss)}$ 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 $N\ O\ N\ E$

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open $N\ O\ N\ E$

SCHEDULE DB - VERIFICATION

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

		Book/Adjusted Carrying V	alue Check
1.	Part A, Section 1, Column 14	21,301,936	
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance		
3.	Total (Line 1 plus Line 2)		21,301,936
4.	Part D, Section 1, Column 5	26,983,507	
5.	Part D, Section 1, Column 6	(5,681,571)	
6.	Total (Line 3 minus Line 4 minus Line 5)		
		Fair Value Chec	ck
7.	Part A, Section 1, Column 16	21,301,936	
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)		21,301,936
10.	Part D, Section 1, Column 8	26,983,507	
11.	Part D, Section 1, Column 9	(5,681,571)	
12	Total (Line 9 minus Line 10 minus Line 11)	<u></u>	
		Potential Exposure (Check
13.	Part A, Section 1, Column 21	123,663,661	
14.	Part B, Section 1, Column 20	25,245,580	
15.	Part D, Section 1, Column 11	148,909,241	
16.	Total (Line 13 plus Line 14 minus Line 15)		

SCHEDULE E - VERIFICATION BETWEEN YEARS

(Cash Equivalents) 2 3 Other (a) Total Bonds ..2,030,264,973 _2,030,264,973 1. Book/adjusted carrying value, December 31 of prior year ..98,222,351,296 ..98,222,351,296 2. Cost of cash equivalents acquired8,986 Accrual of discount.8,986 Unrealized valuation increase (decrease)1,366,8501,366,850 5. Total gain (loss) on disposals ..98,252,886,821 Deduct consideration received on disposals ..98,252,886,821 7. Deduct amortization of premium. 8. Total foreign exchange change in book/adjusted carrying value. Deduct current year's other than temporary impairment recognized 2,001,105,284 2,001,105,284 10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9) ... 11. Deduct total nonadmitted amounts Statement value at end of current period (Line 10 minus Line 11) 2,001,105,284 2,001,105,284

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