Filing at a Glance

Company: American General Life Insurance Company

Product Name: 06001 ROPSAT - 09	SERFF Tr Num: AMGN-126002618	State: ArkansasLH
TOI: L04I Individual Life - Term	SERFF Status: Closed	State Tr Num: 41942
Sub-TOI: L04I.103 Renewable - Single Life - Fixed/Indeterminate Premium	Co Tr Num: 06001 ROPSAT - 09	State Status: Filed-Closed
Filing Type: Form	Co Status:	Reviewer(s): Linda Bird
	Author: Luis Cardozo	Disposition Date: 01/29/2009
	Date Submitted: 01/23/2009	Disposition Status: Accepted For Informational Purposes
Implementation Date Requested: 01/31/2009		Implementation Date:

State Filing Description:

General Information

Project Name:	Status of Filing in Domicile: Authorized
Project Number: 06001 ROPSAT - 09	Date Approved in Domicile:
Requested Filing Mode: Informational	Domicile Status Comments:
Explanation for Combination/Other:	Market Type: Individual
Submission Type: New Submission	Group Market Size:
Overall Rate Impact:	Group Market Type:
Filing Status Changed: 01/29/2009	
State Status Changed: 01/29/2009	Deemer Date:
Corresponding Filing Tracking Number:	

Filing Description:

Re: Informational Filing

Revised Actuarial Memorandum Form 06001

Dear Sir or Madam:

This is an informational filing of a revised actuarial memorandum for Form 06001 (approved on 1-27-06). The reserve valuation basis has been changed from 2001 CSO Mortality Table to 2001 CSO Preferred Mortality table. Additionally, the actuarial demonstration shows compliance with the NAIC's Guideline CCC.

Should there be any further question or requirements please contact me at 800-247-8837 extension 2465 or by e-mail at luis_cardozo@aigag.com.

Sincerely,

Luis E. Cardozo
Senior Policy Analyst

Company and Contact

Filing Contact Information

Luis Cardozo,	luis_cardozo@aigag.com
2929 Allen Parkway	(713) 831-2465 [Phone]
Houston, TX 77019	(713) 342-7550[FAX]

Filing Company Information

American General Life Insurance Company	CoCode: 60488	State of Domicile: Texas
2727-A Allen Parkway	Group Code: 12	Company Type:
Houston, TX 77019	Group Name: AIG	State ID Number:
(713) 831-3508 ext. [Phone]	FEIN Number: 25-0598210	

Filing Fees

Fee Required?	Yes
Fee Amount:	$50.00
Retaliatory?	Yes
Fee Explanation:	

SERFF Tracking Number:	*AMGN-126002618*	*State:*	*Arkansas*
Filing Company:	*American General Life Insurance Company*	*State Tracking Number:*	*41942*
Company Tracking Number:	*06001 ROPSAT - 09*		
TOI:	*L04I Individual Life - Term*	*Sub-TOI:*	*L04I.103 Renewable - Single Life - Fixed/Indeterminate Premium*
Product Name:	*06001 ROPSAT - 09*		
Project Name/Number:	*/06001 ROPSAT - 09*		

Per Company: No

SERFF Tracking Number:	*AMGN-126002618*	*State:*	*Arkansas*
Filing Company:	*American General Life Insurance Company*	*State Tracking Number:*	*41942*
Company Tracking Number:	*06001 ROPSAT - 09*		
TOI:	*L04I Individual Life - Term*	*Sub-TOI:*	*L04I.103 Renewable - Single Life - Fixed/Indeterminate Premium*
Product Name:	*06001 ROPSAT - 09*		
Project Name/Number:	*/06001 ROPSAT - 09*		

COMPANY	AMOUNT	DATE PROCESSED	TRANSACTION #
American General Life Insurance Company	$50.00	01/23/2009	25226809

Correspondence Summary

Dispositions

Status	Created By	Created On	Date Submitted
Accepted For Informational Purposes	Linda Bird	01/29/2009	01/29/2009

Disposition

Disposition Date: 01/29/2009

Implementation Date:

Status: Accepted For Informational Purposes

Comment:

Rate data does NOT apply to filing.

SERFF Tracking Number:	*AMGN-126002618*	*State:*	*Arkansas*
Filing Company:	*American General Life Insurance Company*	*State Tracking Number:*	*41942*
Company Tracking Number:	*06001 ROPSAT - 09*		
TOI:	*L04I Individual Life - Term*	*Sub-TOI:*	*L04I.103 Renewable - Single Life - Fixed/Indeterminate Premium*
Product Name:	*06001 ROPSAT - 09*		
Project Name/Number:	*/06001 ROPSAT - 09*		

Item Type	Item Name	Item Status	Public Access
Supporting Document	Flesch Certification		No
Supporting Document	Application		No
Supporting Document	Life & Annuity - Acturial Memo		No
Supporting Document	ROPSAT Act. Memo		Yes

Rate Information

Rate data does NOT apply to filing.

Supporting Document Schedules

Review Status:

Satisfied -Name: ROPSAT Act. Memo 01/22/2009

Comments:

Attachment:

SAT ROP 2009 Actuarial Memorandum (Generic).pdf

American General Life Insurance Company

Actuarial Demonstration of Compliance with
Standard Nonforfeiture Law
Policy Form 06001
15, 20-35 Year Level Term Plan
Non-participating

I. Description of Policy Characteristics

A. *Death Benefits*

The policy is an "N" year level premium term life insurance policy, renewable annually to the policy anniversary nearest the insured's 95th birthday. A variety of level premium periods are available ("N" may equal 15, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35).

The policy provides a level death benefit and is convertible.

The policy has a minimum issue age of 20 and a maximum issue age that varies in accordance with the level premium period ("N") chosen. See "Issue Age Ranges" below. The policy is convertible until the earlier of the end of the level premium period or the insured's attainment of age 70.

Issue Age Ranges

Level Premium Period	Available Issue Ages Nontobacco	Available Issue Ages Tobacco
15	20-65	20-55
20	20-60	20-55
21	20-59	20-54
22	20-58	20-53
23	20-57	20-52
24	20-56	20-51
25	20-55	20-50
26	20-54	20-49
27	20-53	20-48
28	20-52	20-47
29	20-51	20-46
30	20-50	20-45
31	20-49	20-44
32	20-48	20-43
33	20-47	20-42
34	20-46	20-41
35	20-45	20-40

B. *Premiums*

The level premium is guaranteed for the first "N" years, and the premiums in subsequent years increase annually until age 95 of the insured. Premiums during the level premium period vary by age, sex, underwriting class, and face amount.

C. *Cash Values*

This product provides cash values starting no later than the fifth policy year until the end of the Nth year. The cash value is paid to the policyholder at the end of the Nth year.

D. *Endowment*

The policy endows for the cash value at the end of the Nth year. After endowment, the policy may continue with payment of annually increasing premiums but it will not provide any cash values after the end of the Nth year.

II. Nonforfeiture Values

Cash values for this product are never less than the greater of:

1. The minimum required nonforfeiture cash values.
2. The minimum required cash values at the same duration resulting from the application of methods described in NAIC Actuarial Guideline CCC.

A. *Basis for Cash Values*

2001 CSO ANB Sex and Smoker Distinct Ultimate Only mortality table and 5.0% interest.

B. *Minimum Nonforfeiture Method – Formulas per $1,000 of Insurance*

t	=	policy year as measured from original issue date
N	=	the length of the endowment period
i	=	maximum nonforfeiture interest rate
q_{x+t}	=	2001 CSO Sex and Smoker Distinct Ultimate Only mortality rate for age x+t, where x is the age nearest birthday as of the policy anniversary, and t is the duration from issue of the policy.
G_{x+t}	=	Gross premium in year t for issue age x. The premium is the maximum premium as guaranteed by the policy form.
PF	=	Annual policy fee, $0
TG_{x+t}	=	Gross premium in year t for issue age x.
P_x	=	Net level premium for issue age x, year 1
E_x	=	Expense allowance for issue age x
k	=	Adjusted premium multiple of gross premium
AAI	=	Average Amount of Insurance for the first 10 policy years
DB	=	Amount of insurance for this policy form (level in all years)
${}_tEB_x$	=	Present value of Endowment benefit at the beginning of year t for issue age x
${}_tCV_x$	=	Cash value at end of year t for issue age x
${}_tNCV_x$	=	Nonforfeiture Cash value at end of year t for issue age x

The formulae for the SNFL maximum expense allowance, net premium, and cash values are:

$$TG_{x+t} = \frac{\left(G_{x+t} * DB/1000 + PF\right)}{DB/1000}$$

$$ {}_{t}EB_{x} = {}_{N}CV_{x} * \frac{D_{x+N}}{D_{x+t}} $$

$$ P_{x} = \frac{DB*(M_{x} - M_{95})/D_{x} + {}_{0}EB_{x}}{(N_{x} - N_{95})/D_{x}} $$

$$ E_{x} = .01*AAI + 1.25*MIN\{P_{x} \quad and \quad .04*AAI\} $$

$$ k = \frac{\frac{DB*(M_{x} - M_{95})}{D_{x}} + {}_{0}EB_{x} + E_{x}}{\sum_{t=0}^{t=95-(x+1)} G_{x+t} * \left(\frac{D_{x+t}}{D_{x}}\right)} $$

$$ {}_{t}NCV_{x} = \left(\frac{DB*(M_{x+t} - M_{95})}{D_{x+t}} + {}_{t}EB_{x}\right) - \left(\sum_{S=t}^{S=95-(x+1)} k*G_{x+t} * \left(\frac{D_{x+s}}{D_{x+t}}\right)\right) $$

C. <u>*Minimum Required under NAIC Guideline CCC – Formulas per $1,000 of Insurance*</u>

${}_{N}P_{x}$	=	Net level premium for issue age x, year 1, based on the endowment, and calculated over the endowment period of N years
${}_{N}E_{x}$	=	Expense allowance for issue age x calculated over the endowment period
${}_{N}k$	=	Endowment-period-adjusted premium multiple of gross premium
${}_{t}GCV_{x}$	=	Minimum Guideline CCC compliant Cash value at end of year t for issue age x

The formulae for the Guideline CCC maximum expense allowance, net premium, and cash values are:

$$ {}_{N}P_{x} = \frac{{}_{0}EB_{x}}{(N_{x} - N_{x+N})/D_{x}} $$

$$ {}_{N}E_{x} = .01*AAI + 1.25*MIN\{{}_{N}P_{x} \quad and \quad .04*AAI\} $$

$$ {}_{N}k = \frac{{}_{0}EB_{x} + {}_{N}E_{x}}{\sum_{t=0}^{t=N-1} G_{x+t} * \left(\frac{D_{x+t}}{D_{x}}\right)} $$

$$ {}_{t}GCV_{x} = ({}_{t}EB_{x}) - \left(\sum_{S=t}^{S=N-1} k*G_{x+t} * \left(\frac{D_{x+s}}{D_{x+t}}\right)\right) $$

D. *Final Cash Values – Formulas per $1,000 of Insurance*

The final cash values for this product are always greater than or equal to the maximum of the minimum non-forfeiture cash values and the minimum guideline CCC cash values. Sample calculations follow:

${}_tNCV_x$ = Nonforfeiture Cash value at end of year t for issue age x

${}_tGCV_x$ = Minimum Guideline CCC compliant Cash value at end of year t for issue age x

${}_tTCV_x$ = Tabular Cash value at end of year t for issue age x (sample on following page for issue age 35)

${}_tCV_x$ = Cash value at end of year t for issue age x

$${}_tCV_x = \max\{{}_tNCV_x, {}_tGCV_x, 0\}$$

Tabular cash values are calculated such that both of the following conditions hold for every t:

1. ${}_tTCV_x \geq {}_tCV_x$
2. ${}_tTCV_x$ complies with the smoothness test (see section F for details of the smoothness test).

E. *Numerical Demonstration for Cash Values*

Male, Age 35, Nontobacco (Standard Nontobacco), $100,000 face amount, Thirty-Year Level Term, all numbers shown below are per $1000:

G_{x+t} = 5.93 for the first thirty years, followed by 51.33, 56.46, 61.65,…

TG_{x+t} = (5.93 * 100,000 / 1,000 + 0) / (100,000 / 1,000)
= 5.93 for the first thirty years, followed by 51.33, 56.46, 61.65,…

P_x = (139.4967 + 35.7986) / 18.0180 = 9.7289

E_x = 10 + 1.25 * Min{Px,40} = 10 + 1.25 (9.7289) = 22.1611

k = (175.2953 + 22.1611) / 400.4480 = 0.4931

${}_0EB_{35}$ = 177.9 * 201,228.52 / 1,000,000 = 35.7986

${}_NP_x$ = 35.7986 / 15.7377 = 2.2747

${}_NE_x$ = 10 + 1.25 * Min{ ${}_NPx$, 40} = 10 + 1.25 (2.2747) = 12.8434

${}_Nk$ = (35.7986 + 12.8434) / 93.3243 = 0.5212

${}_0NCV_{35}$ = 139.4967 + 35.7986 – 197.4564 = -22.1611
${}_5NCV_{35}$ = 172.3980 + 45.9688 – 236.5213 = -18.1545
${}_{10}NCV_{35}$ = 212.3098 + 59.1863 – 287.4665 = -15.9704

${}_0GCV_{35}$ = 35.7986 – 48.6419 = -12.8433
${}_5GCV_{35}$ = 45.9688 – 44.4579 = 1.5108
${}_{10}GCV_{35}$ = 59.1863 – 39.2051 = 19.9812

${}_0CV_{35}$ = Max{ -22.16, -12.84, 0.00} = 0.00
${}_5CV_{35}$ = Max{ -18.154, 1.51, 0.00}= 1.51
${}_{10}CV_{35}$ = Max{ -15.97 , 19.98, 0.00} = 19.98

$_0TCV_{35} = 0.00$
$_5TCV_{35} = 1.52$
$_{10}TCV_{35} = 19.99$

A table of cash values at all durations for this sample age:

End of Policy Year	Guaranteed Premium Per $1,000 w/o Policy Fee	Minimum NonForfeiture Cash Value Per $1,000	Minimum Guideline-CCC Cash Value Per $1,000	Tabular Cash Value Per $1,000
1	5.93	-21.31	-10.25	0.00
2	5.93	-20.48	-7.53	0.00
3	5.93	-19.66	-4.66	0.00
4	5.93	-18.89	-1.65	0.00
5	5.93	-18.15	1.51	1.52
6	5.93	-17.48	4.84	4.84
7	5.93	-16.89	8.34	8.34
8	5.93	-16.42	12.02	12.03
9	5.93	-16.10	15.90	15.90
10	5.93	-15.97	19.98	19.99
11	5.93	-16.07	24.28	24.29
12	5.93	-16.39	28.82	28.82
13	5.93	-16.98	33.59	33.60
14	5.93	-17.74	38.63	38.64
15	5.93	-18.70	43.95	43.95
16	5.93	-19.95	49.55	49.56
17	5.93	-21.55	55.48	55.48
18	5.93	-23.61	61.74	61.74
19	5.93	-26.19	68.37	68.37
20	5.93	-29.45	75.40	75.41
21	5.93	-33.53	82.87	82.88
22	5.93	-38.52	90.82	90.82
23	5.93	-44.51	99.28	99.29
24	5.93	-51.46	108.30	108.30
25	5.93	-59.55	117.91	117.92
26	5.93	-68.99	128.19	128.20
27	5.93	-80.08	139.23	139.62
28	5.93	-93.20	151.12	152.10
29	5.93	-108.66	163.97	164.20
30	5.93	-304.64	177.90	177.90

F. *Smoothness Test*

Cash Values for this product have been tested for compliance with the Standard Nonforfeiture Law's Smoothness Test. The Product passes the test for all cells.

Let:

NFF_t = Nonforfeiture Factor for duration t

SP_t = Smoothness Test Premiums

${}_tPVSP_x$ = Present Value of Smoothness Test Premiums at beginning of duration t for issue age x

${}_tSCV_x$ = Smoothness Test Cash Values at beginning of duration t for issue age x

${}_tEBE_x$ = Endowment benefit at the end of year t for issue age x

${}_tCVE_x$ = Cash Values net of endowment benefits at end of duration t for issue age x

Then:

$$SP_t = NFF_t * k * G_{x+t}$$

$${}_tPVSP_x = \sum_{s=t}^{95-x} SP_t * \left(\frac{D_{x+s-1}}{D_{x+t-1}} \right)$$

$${}_tSCV_x = \left(\frac{DB * (M_{x+t-1} - M_{95})}{D_{x+t-1}} + {}_tEB_x \right) - {}_tPVSP_x$$

$${}_tCVE_x = {}_tTCV_x - {}_tEBE_x$$

The Actual Cash Values on each anniversary must be within 0.2%*DB of the greater of zero and ${}_tSCV_x$.

G. *Numerical Demonstration for Smoothness Test*

Male, Age 35, Nontobacco (Standard Nontobacco), $100,000 face amount, Thirty-Year Level Term. All numbers shown on the next page are per $1000:

Sample Smoothness Calculation for Select-a-Term ROP 30 Product
American General Life
Male, Issue Age 35, Class IV, $100,000 Face Amount

Att Age	Dur	Gx+t	k	NFF	SPt	PVSPt	tEBx	Ax+t	tSCVx	tTCVx	tEBEx	tCVEx	Diff
35	1	5.93	49.3%	92%	2.69	181.14	35.80	0.1395	0.00	0.00	0.00	0.00	**0.00**
36	2	5.93	49.3%	92%	2.69	187.58	37.63	0.1455	0.00	0.00	0.00	0.00	**0.00**
37	3	5.93	49.3%	92%	2.69	194.36	39.56	0.1518	0.00	0.00	0.00	0.00	**0.00**
38	4	5.93	49.3%	92%	2.69	201.49	41.58	0.1584	0.00	0.00	0.00	0.00	**0.00**
39	5	5.93	49.3%	92%	2.69	209.01	43.72	0.1653	1.43	1.52	0.00	1.52	**0.09**
40	6	5.93	49.3%	92%	2.69	216.93	45.97	0.1724	2.87	4.84	0.00	4.84	**1.97**
41	7	5.93	49.3%	168%	4.91	225.28	48.34	0.1798	6.61	8.34	0.00	8.34	**1.73**
42	8	5.93	49.3%	168%	4.91	231.76	50.83	0.1875	10.38	12.03	0.00	12.03	**1.65**
43	9	5.93	49.3%	168%	4.91	238.60	53.47	0.1955	14.19	15.90	0.00	15.90	**1.71**
44	10	5.93	49.3%	168%	4.91	245.84	56.25	0.2038	17.99	19.99	0.00	19.99	**2.00**
45	11	5.93	49.3%	198%	5.79	253.51	59.19	0.2123	22.69	24.29	0.00	24.29	**1.60**
46	12	5.93	49.3%	198%	5.79	260.71	62.29	0.2211	27.43	28.82	0.00	28.82	**1.39**
47	13	5.93	49.3%	198%	5.79	268.35	65.57	0.2302	32.18	33.60	0.00	33.60	**1.42**
48	14	5.93	49.3%	198%	5.79	276.46	69.04	0.2396	37.04	38.64	0.00	38.64	**1.60**
49	15	5.93	49.3%	198%	5.79	285.04	72.71	0.2494	42.01	43.95	0.00	43.95	**1.94**
50	16	5.93	49.3%	239%	6.99	294.12	76.58	0.2596	48.29	49.56	0.00	49.56	**1.27**
51	17	5.93	49.3%	239%	6.99	302.49	80.68	0.2701	54.65	55.48	0.00	55.48	**0.83**
52	18	5.93	49.3%	239%	6.99	311.40	85.02	0.2810	61.00	61.74	0.00	61.74	**0.74**
53	19	5.93	49.3%	239%	6.99	320.90	89.62	0.2923	67.32	68.37	0.00	68.37	**1.05**
54	20	5.93	49.3%	239%	6.99	331.05	94.52	0.3039	73.52	75.41	0.00	75.41	**1.89**
55	21	5.93	49.3%	328%	9.59	341.93	99.73	0.3157	82.21	82.88	0.00	82.88	**0.67**
56	22	5.93	49.3%	328%	9.59	350.89	105.29	0.3278	90.81	90.82	0.00	90.82	**0.01**
57	23	5.93	49.3%	328%	9.59	360.58	111.24	0.3401	99.27	99.29	0.00	99.29	**0.02**
58	24	5.93	49.3%	328%	9.59	371.07	117.61	0.3527	107.68	108.30	0.00	108.30	**0.62**
59	25	5.93	49.3%	328%	9.59	382.39	124.41	0.3657	115.98	117.92	0.00	117.92	**1.94**
60	26	5.93	49.3%	483%	14.12	394.63	131.70	0.3789	128.84	128.20	0.00	128.20	**0.64**
61	27	5.93	49.3%	483%	14.12	403.13	139.53	0.3924	141.59	139.62	0.00	139.62	**1.97**
62	28	5.93	49.3%	483%	14.12	412.55	147.97	0.4062	154.08	152.10	0.00	152.10	**1.98**
63	29	5.93	49.3%	483%	14.12	423.06	157.12	0.4200	166.18	164.20	0.00	164.20	**1.98**
64	30	5.93	49.3%	483%	14.12	434.83	167.07	0.4339	0.00	177.90	177.90	0.00	**0.00**
65	31	51.33	49.3%	58%	14.68	447.99	0.00	0.4479	0.00	0.00	0.00	0.00	**0.00**
66	32	56.46	49.3%	58%	16.15	462.12	0.00	0.4620	0.00	0.00	0.00	0.00	**0.00**
67	33	61.65	49.3%	58%	17.63	476.38	0.00	0.4762	0.00	0.00	0.00	0.00	**0.00**
68	34	67.26	49.3%	58%	19.24	490.80	0.00	0.4906	0.00	0.00	0.00	0.00	**0.00**
69	35	72.99	49.3%	58%	20.87	505.38	0.00	0.5051	0.00	0.00	0.00	0.00	**0.00**
70	36	80.01	49.3%	58%	22.88	520.16	0.00	0.5197	0.00	0.00	0.00	0.00	**0.00**
71	37	87.84	49.3%	58%	25.12	535.04	0.00	0.5345	0.00	0.00	0.00	0.00	**0.00**
72	38	98.19	49.3%	58%	28.08	549.97	0.00	0.5493	0.00	0.00	0.00	0.00	**0.00**
73	39	109.05	49.3%	58%	31.19	564.67	0.00	0.5639	0.00	0.00	0.00	0.00	**0.00**
74	40	120.51	49.3%	58%	34.46	579.17	0.00	0.5782	0.00	0.00	0.00	0.00	**0.00**
75	41	132.99	49.3%	58%	38.03	593.47	0.00	0.5924	0.00	0.00	0.00	0.00	**0.00**
76	42	145.92	49.3%	58%	41.73	607.53	0.00	0.6062	0.00	0.00	0.00	0.00	**0.00**
77	43	160.92	49.3%	58%	46.02	621.51	0.00	0.6198	0.00	0.00	0.00	0.00	**0.00**
78	44	178.38	49.3%	58%	51.02	635.32	0.00	0.6328	0.00	0.00	0.00	0.00	**0.00**
79	45	198.45	49.3%	58%	56.75	648.85	0.00	0.6451	0.00	0.00	0.00	0.00	**0.00**
80	46	220.23	49.3%	61%	66.24	662.00	0.00	0.6564	0.00	0.00	0.00	0.00	**0.00**
81	47	244.89	49.3%	61%	73.66	671.09	0.00	0.6666	0.00	0.00	0.00	0.00	**0.00**
82	48	270.36	49.3%	61%	81.32	678.79	0.00	0.6754	0.00	0.00	0.00	0.00	**0.00**
83	49	297.57	49.3%	61%	89.50	684.97	0.00	0.6824	0.00	0.00	0.00	0.00	**0.00**
84	50	327.60	49.3%	61%	98.54	689.42	0.00	0.6874	0.00	0.00	0.00	0.00	**0.00**
85	51	360.93	49.3%	61%	108.56	691.67	0.00	0.6899	0.00	0.00	0.00	0.00	**0.00**
86	52	397.77	49.3%	61%	119.64	691.09	0.00	0.6889	0.00	0.00	0.00	0.00	**0.00**
87	53	437.64	49.3%	61%	131.64	686.79	0.00	0.6833	0.00	0.00	0.00	0.00	**0.00**
88	54	480.06	49.3%	61%	144.39	677.61	0.00	0.6716	0.00	0.00	0.00	0.00	**0.00**
89	55	524.46	49.3%	61%	157.75	661.87	0.00	0.6514	0.00	0.00	0.00	0.00	**0.00**
90	56	570.39	49.3%	65%	182.81	637.16	0.00	0.6196	0.00	0.00	0.00	0.00	**0.00**
91	57	612.90	49.3%	65%	196.44	585.40	0.00	0.5712	0.00	0.00	0.00	0.00	**0.00**
92	58	656.85	49.3%	65%	210.53	510.46	0.00	0.4998	0.00	0.00	0.00	0.00	**0.00**
93	59	702.84	49.3%	65%	225.27	401.41	0.00	0.3943	0.00	0.00	0.00	0.00	**0.00**
94	60	751.17	49.3%	65%	240.76	240.76	0.00	0.2372	0.00	0.00	0.00	0.00	**0.00**

III. Reserves

A. *Basis for Basic Reserves*

4.0% 2001 CSO Preferred ANB Sex and Smoker Distinct Ultimate mortality using semi-continuous functions.

B. *Basis for Minimum Reserves*

4.0% 2001 CSO Preferred ANB Sex and Smoker Distinct Select and Ultimate mortality with X percent of mortality, X varying by policy factors expected to affect mortality experience, using semi-continuous functions.

The table below contains X factors for a 35 year-old male nontobacco (Standard Nontobacco). A complete list of X factors is on file at the home office.

Duration	X Factor
1	0.39
2	0.46
3	0.58
4	0.58
5	0.58
6	0.58
7	0.58
8	0.58
9	0.58
10	0.58
11	0.58
12	0.58
13	0.58
14	0.58
15	0.58
16	0.58
17	0.58
18	0.58
19	0.58
20	0.58
21	0.58
22	0.58
23	0.58
24	0.58
25	0.58
26	0.58
27	0.58
28	0.58
29	0.58
30	0.58

C. *Unusual Pattern of Guaranteed Cash Surrender Values*

The cash values are tested to see if an "unusual pattern of guaranteed cash surrender values" is generated. Specifically:

If: $(CV_t - CV_{t-1}) > 1.10 * (G_{x,t}+.05* (CV_{t-1}+G_{x,t}))$ for any $t>0$ then:

Reserves are calculated by treating the first unusual guaranteed cash surrender value as a pure endowment and treating the policy as an N year policy providing term insurance plus a pure endowment equal to the unusual cash surrender value, where N is the number of years from the date of issue to the date of the unusual cash surrender value.

Reserves in subsequent durations are calculated as specified in section 6D of the "Valuation of Life Insurance Policies Model Regulation".

Additional reserves are held to the extent that these reserves exceed the otherwise calculated minimum reserve.

D. *Commissioners Reserve Method – Formulas per $1,000 of Insurance*

DEFINE

x = Issue age

e = Expiry age

t = Policy duration

n = Duration of level premium period

$2001CSO_{[x]+t-1}$ = The 2001 CSO Preferred Sex and Smoker distinct Select and Ultimate mortality rate for select age x, duration t

$2001CSO_y$ = The 2001 CSO Preferred Smoker and Sex Distinct Ultimate mortality rate at age y

$XFAC_{x,t}$ = X factors for duration t, issue age x as defined in the "Valuation of Life Insurance Liabilities Model Regulation"

$UQ_{x,t}$ = Unitary Base Valuation Mortality

$MQ_{x,t}$ = Minimum Valuation mortality

$G_{x,t}$ = Gross Premium per $1,000 of death benefit

i = 4.0%, the valuation interest rate

v = 1/(1+i), the discount factor

contadj = i/δ, the semi-continuous interest adjustment

$BRSV_{x,t}$ = BASE TERMINAL RESERVE issue age x, duration t

$MRSV_{x,t}$ = MINIMUM TERMINAL RESERVE issue age x, duration t

$DRSV_{x,t}$ = DEFICIENCY RESERVE issue age x, duration t

$SBRSV_{x,t}$ = SEGMENTED BASE TERMINAL RESERVE issue age x, duration t

$UBRSV_{x,t}$ = UNITARY BASE TERMINAL RESERVE issue age x, duration t

CV_n = Endowment Benefit per $1,000 of death benefit

CV_t = Cash Value at end of duration t per $1,000 of death benefit

$PVFDB_{x,t}$ = Present Value of Future Death Benefits (calculated recursively) per $1 of death benefit

$PVFGP_{x,t}$ = Present Value of Future Gross Premiums (calculated recursively) per $1,000 of death benefit

MAXEA = Maximum Expense Allowance under CRVM per $1,000 of death benefit

FPTEA = Expense Allowance calculated using the Full Preliminary Term Method per $1,000 of death benefit

EA = Actual Expense Allowance per $1,000 of death benefit

$PVEB_{x,t}$ = Present Value of Endowment Benefit per $1 of death benefit

VNP_t = Valuation net premium duration t

K = Ratio of Unitary Valuation Net Premium in years 2+ as a percentage of gross premium

s = Duration of first death benefit segment in years

$PVSNP_t$ = Present Value of Segmented Net Premiums duration t

KS_t = Ratio of Segmented Valuation Net Premium in year t as a percentage of gross premium

$SNP_{x,t}$ = Segmented Valuation Net Premium for issue age x, duration t

$SFPTEA$ = Segmented Full Preliminary Term Expense Allowance

$PVFDB_{x,t,s}$ = Present Value of Future Death Benefits for issue age x, duration t, death benefit segment s

$PVFGP_{x,t,s}$ = Present Value of Future Gross Premiums for issue age x, duration t, death benefit segment s

d_s = Age at which segment s terminates

f = Age at which segment begins

FORMULAS

$DRSV_{x,t} = MAX\{0\ ,\ MRSV_{x,t} - BRSV_{x,t}\}$

$BRSV_{x,t} = MAX\{SBRSV_{x,t}\ ,\ UBRSV_{x,t}\}$

CALCULATION OF $UBRSV_{x,t}$

$UQ_{x,t} = 2001CSO_{x+t-1}$

$$PVFDB_{x,t} = \begin{cases} v*UQ_{x,t} + v*(1-UQ_{x,t})*PVFDB_{x,t+1} & \text{if } x+t \le 95 \\ 0 & \text{otherwise} \end{cases}$$

$$PVFGP_{x,t} = \begin{cases} G_{x,t} + v*(1-UQ_{x,t})*PVFGP_{x,t+1} & \text{if } x+t \le 95 \\ 0 & \text{otherwise} \end{cases}$$

$$PVEB_{x,t} = \begin{cases} v*(1-UQ_{x,t})*PVEB_{x,t+1} & \text{if } t < n \\ \dfrac{v*(1-UQ_{x,t})*CV_n}{1000} & \text{if } t = n \\ 0 & \text{if } t > n \end{cases}$$

$$MAXEA = 1{,}000*({}_{19}P_{x+1} - c_x)$$
$$= 1{,}000*contadj*\left(\frac{M_{x+1}}{N_{x+1}-N_{x+20}} - v*UQ_{x,1}\right)$$

$$FPTEA = \frac{1{,}000*(contadj*PVFDB_{x,2} + PVEB_{x,2})*G_{x,2}}{PVFGP_{x,2}} - 1{,}000*contadj*v*UQ_{x,1}$$

$EA = MIN\{MAXEA,\ FPTEA\}$

$$VNP_1 = \begin{cases} 1{,}000*contadj*v*UQ_{x,1} & \text{if } FPTEA \le MAXEA \\ VNP_2 - MAXEA & \text{otherwise} \end{cases}$$

$$K = \begin{cases} \dfrac{1{,}000*(contadj*PVFDB_{x,2} + PVEB_{x,2})}{PVFGP_{x,2}} & \text{if } FPTEA \le MAXEA \\ \dfrac{1{,}000*(contadj*PVFDB_{x,1} + PVEB_{x,1}) + MAXEA}{PVFGP_{x,1}} & \text{otherwise} \end{cases}$$

$VNP_t \quad = K*G_{x,t} \qquad\qquad for\ t > 1$

$UBRSV_{x,t} \quad = 1{,}000*(contadj*PVFDB_{x,t+1} + PVEB_{x,t+1}) - PVFGP_{x,t+1}*K$

CALCULATION OF $SBRSV_{x,t}$

It is necessary to determine the number of death benefit segments and length of each segment as defined in the "Valuation of Life Insurance Liabilities Model Regulation".

DEFINE

$R_t \quad = MAX\{UQ_{x,t} / UQ_{x,t-1}\ ,\ 1\}$

$G_t \quad = MAX\{G_{x,t} / G_{x,t-1}\ ,\ 1\}$

Then: A New Death Benefit segment begins at each t for which $G_t > R_t$

$UQ_{x,t} \quad = 2001CSO_{x+t-1}$

Since the premiums are level through the date on which the endowment benefit will be paid, then $n \leq s$ and all calculations involving the endowment will occur in segment 1.

Note further that the actual segmented reserve is calculated as the present value of future benefits (to expiry = age 95) minus the present value of valuation net premiums (to expiry = age 95). However, the actual valuation net premiums are determined using the present values of benefits and premiums within each segment rather than to expiry.

$SBRSV_{x,t} \quad = 1{,}000*(contadj*PVEDB_{x,t+1} + PVEB_{x,t+1}) - PVSNP_{t+1}$

$PVSNP_t \quad = SNP_{x,t} + v*(1-UQ_{x,t})*PVSNP_{t+1}$

$SNP_{x,1} \quad = 1{,}000*contadj*UQ_{x,1} \qquad if\ SFPTEA \leq MAXEA$

$\qquad\qquad SNP_{x,2} - MAXEA \qquad otherwise$

$SNP_{x,t} \quad = KS_t*G_{x,t} \qquad if\ t > 1$

Death benefit segment will have its own PVFDB and PVFGP calculated within the segment as follows:

$PVFDB_{x,t,s} = v*UQ_{x,t} + v*(1-UQ_{x,t})*PVFDB_{x,t+1,s} \qquad if\ x+t \leq d_s$

$PVFGP_{x,t,s} = G_{x,t} + v*(1-UQ_{x,t})*PVFGP_{x,t+1,s} \qquad if\ x+t \leq d_s$

$$SFPTEA = \frac{1{,}000*(contadj*PVFDB_{x,2,1} + PVEB_{x,2})*G_{x,2}}{PVFGP_{x,2,1}} - 1{,}000*contadj*v*UQ_{x,1}$$

$$KS_t = \frac{1{,}000*(contadj*PVFDB_{x,2,1} + PVEB_{x,2})}{PVFGP_{x,2,1}} \qquad if\ SFTTEA \leq MAXEA\ and\ x+t \leq d_s$$

$$\frac{1{,}000*(contadj*PVFDB_{x,1,1} + PVEB_{x,1}) + MAXEA}{PVFGP_{x,1,1}} \qquad if\ MAXEA \leq SFPTEA\ and\ x+t \leq d_s$$

$$\frac{1{,}000*contadj*PVFDB_{x,f-x+1,s}}{PVFGP_{x,f-x+1,s}} \qquad if\ s > 1$$

CALCULATION OF MINIMUM RESERVES

$$MQ_{x,t} = \begin{cases} 2001CSO_{[x]+t-1} * XFAC_{x,t} & if\ t \le s \\ 2001CSO_{x+t-1} & if\ t > s \end{cases}$$

Minimum Unitary and Segmented Reserves are calculated exactly the same as Base Unitary and Segmented Reserves with the following modifications:

1. $MQ_{x,t}$ is substituted for $UQ_{x,t}$
2. All valuation net premiums are floored at $G_{x,t}$. They are not permitted to be greater than $G_{x,t}$.
   For purposes of the unitary formulas, this equates to not permitting K to be greater than 1.
   For segmented formulas, KS_t is not permitted to be greater than 1.

See the attached Appendices 1 – 6 for sample reserve calculations and an example of the unusual cash value test.

IV. Actuarial Certification

I certify that the assumptions are reasonable, and in my judgment, self-supporting.

Sakib Siddiqi, FSA, MAAA
Director, Product Development

Appendix 1: Sample Reserve Calculation - Base Unitary Reserves

Sample Reserve Calculation for Select-a-Term ROP 30 Product
American General Life
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount
BASE UNITARY RESERVES

					contadj=	1.02		MAXEA=	15.13		Alpha=	1.23
					19Px+1 =	16.35		FPTEA=	1.62		Beta=	2.84
					cx=	1.23		EA=	1.62		K=	0.48
			UQx,t	Gx,t					CV	PV	Val	
Att		2001	Val	Gross		PV	PVFDB		Per	Endow	Net	**Unitary**
Age	Dur	CSO Pref.	Mort	Prem	PVFWL	19Pay	Per $1 DB	PVFGP	Unit	Benefit	Prem	**Reserve**
35	1	0.00125	0.00125	5.93	0.2082	-	0.2049	537.15	-	46.92	1.23	-
36	2	0.00131	0.00131	5.93	0.2156	13.44	0.2121	553.16	-	48.85	2.84	**1.62**
37	3	0.00137	0.00137	5.93	0.2232	12.96	0.2195	569.87	-	50.87	2.84	**3.25**
38	4	0.00146	0.00146	5.93	0.2310	12.45	0.2273	587.30	-	52.98	2.84	**4.85**
39	5	0.00157	0.00157	5.93	0.2392	11.93	0.2352	605.51	1.52	55.18	2.84	**6.41**
40	6	0.00167	0.00167	5.93	0.2476	11.38	0.2434	624.54	4.84	57.48	2.84	**7.94**
41	7	0.00181	0.00181	5.93	0.2562	10.82	0.2519	644.43	8.34	59.88	2.84	**9.38**
42	8	0.00198	0.00198	5.93	0.2651	10.23	0.2607	665.25	12.03	62.39	2.84	**10.71**
43	9	0.00217	0.00217	5.93	0.2743	9.62	0.2697	687.05	15.90	65.01	2.84	**11.91**
44	10	0.00240	0.00240	5.93	0.2837	8.98	0.2789	709.90	19.99	67.76	2.84	**12.93**
45	11	0.00267	0.00267	5.93	0.2934	8.32	0.2883	733.89	24.29	70.64	2.84	**13.71**
46	12	0.00292	0.00292	5.93	0.3032	7.63	0.2980	759.11	28.82	73.66	2.84	**14.28**
47	13	0.00320	0.00320	5.93	0.3134	6.92	0.3079	785.60	33.60	76.83	2.84	**14.59**
48	14	0.00335	0.00335	5.93	0.3237	6.18	0.3180	813.46	38.64	80.16	2.84	**14.76**
49	15	0.00355	0.00355	5.93	0.3345	5.40	0.3285	842.65	43.95	83.65	2.84	**14.74**
50	16	0.00379	0.00379	5.93	0.3455	4.59	0.3393	873.29	49.56	87.30	2.84	**14.48**
51	17	0.00409	0.00409	5.93	0.3569	3.75	0.3504	905.49	55.48	91.14	2.84	**13.90**
52	18	0.00449	0.00449	5.93	0.3686	2.87	0.3618	939.38	61.74	95.18	2.84	**12.89**
53	19	0.00492	0.00492	5.93	0.3806	1.96	0.3735	975.17	68.37	99.43	2.84	**11.40**
54	20	0.00549	0.00549	5.93	0.3928	1.00	0.3854	1,012.99	75.41	103.92	2.84	**9.26**
55	21	0.00616	0.00616	5.93	0.4052	-	0.3975	1,053.13	82.88	108.67	2.84	**6.35**
56	22	0.00685	0.00685	5.93	0.4179	-	0.4097	1,095.84	90.82	113.72	2.84	**2.59**
57	23	0.00760	0.00760	5.93	0.4307	-	0.4222	1,141.32	99.29	119.08	2.84	-
58	24	0.00822	0.00822	5.93	0.4437	-	0.4348	1,189.85	108.30	124.79	2.84	-
59	25	0.00894	0.00894	5.93	0.4570	-	0.4476	1,241.48	117.92	130.86	2.84	-
60	26	0.00985	0.00985	5.93	0.4705	-	0.4607	1,296.57	128.20	137.32	2.84	-
61	27	0.01095	0.01095	5.93	0.4842	-	0.4739	1,355.61	139.62	144.24	2.84	-
62	28	0.01231	0.01231	5.93	0.4981	-	0.4873	1,419.21	152.10	151.67	2.84	-
63	29	0.01383	0.01383	5.93	0.5120	-	0.5006	1,488.13	164.20	159.70	2.84	-
64	30	0.01543	0.01543	5.93	0.5260	-	0.5139	1,563.11	177.90	168.42	2.84	-
65	31	0.01711	0.01711	51.33	0.5399	-	0.5272	1,644.84	-	-	24.60	-
66	32	0.01882	0.01882	56.46	0.5539	-	0.5404	1,686.10	-	-	27.06	-
67	33	0.02055	0.02055	61.65	0.5679	-	0.5536	1,727.34	-	-	29.55	-
68	34	0.02242	0.02242	67.26	0.5820	-	0.5669	1,768.66	-	-	32.24	-
69	35	0.02433	0.02433	72.99	0.5962	-	0.5801	1,810.04	-	-	34.99	-
70	36	0.02667	0.02667	80.01	0.6106	-	0.5935	1,851.58	-	-	38.35	-
71	37	0.02928	0.02928	87.84	0.6250	-	0.6067	1,892.92	-	-	42.10	-
72	38	0.03273	0.03273	98.19	0.6395	-	0.6198	1,933.91	-	-	47.06	-
73	39	0.03635	0.03635	109.05	0.6537	-	0.6326	1,973.74	-	-	52.27	-
74	40	0.04017	0.04017	120.51	0.6678	-	0.6450	2,012.43	-	-	57.76	-
75	41	0.04433	0.04433	132.99	0.6817	-	0.6570	2,049.95	-	-	63.74	-
76	42	0.04864	0.04864	145.92	0.6955	-	0.6686	2,086.11	-	-	69.94	-
77	43	0.05364	0.05364	160.92	0.7092	-	0.6798	2,120.96	-	-	77.13	-
78	44	0.05946	0.05946	178.38	0.7226	-	0.6904	2,153.99	-	-	85.50	-
79	45	0.06615	0.06615	198.45	0.7358	-	0.7002	2,184.52	-	-	95.12	-
80	46	0.07341	0.07341	220.23	0.7486	-	0.7089	2,211.83	-	-	105.56	-
81	47	0.08163	0.08163	244.89	0.7611	-	0.7165	2,235.36	-	-	117.38	-
82	48	0.09012	0.09012	270.36	0.7730	-	0.7225	2,254.09	-	-	129.59	-
83	49	0.09919	0.09919	297.57	0.7845	-	0.7267	2,267.42	-	-	142.63	-
84	50	0.10920	0.10920	327.60	0.7956	-	0.7289	2,274.22	-	-	157.02	-
85	51	0.12031	0.12031	360.93	0.8062	-	0.7284	2,272.66	-	-	173.00	-
86	52	0.13259	0.13259	397.77	0.8164	-	0.7244	2,260.12	-	-	190.66	-
87	53	0.14588	0.14588	437.64	0.8259	-	0.7157	2,232.90	-	-	209.77	-
88	54	0.16002	0.16002	480.06	0.8349	-	0.7006	2,185.96	-	-	230.10	-
89	55	0.17482	0.17482	524.46	0.8432	-	0.6770	2,112.11	-	-	251.38	-
90	56	0.19013	0.19013	570.39	0.8509	-	0.6413	2,000.97	-	-	273.40	-
91	57	0.20430	0.20430	612.90	0.8579	-	0.5888	1,837.09	-	-	293.77	-
92	58	0.21895	0.21895	656.85	0.8645	-	0.5128	1,600.05	-	-	314.84	-
93	59	0.23428	0.23428	702.84	0.8708	-	0.4025	1,255.90	-	-	336.88	-
94	60	0.25039	0.25039	751.17	0.8768	-	0.2408	751.17	-	-	360.05	-

Appendix 2: Sample Reserve Calculation - Base Segmented Reserves

Sample Reserve Calculation for Select-a-Term ROP 30 Product
American General Life
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount
BASE SEGMENTED RESERVES

						contadj=	1.02		MAXEA=	15.13		Alpha=	1.23
						19Px+1 =	16.35		FPTEA=	5.64		Beta=	6.87
						cx=	1.23		EA=	5.64		K=	1.16
		UQx,t	Gx,t	Rt		Segmented		PV		Segment	Calc to Expiry @ 95		
Att		Val	Gross	Ratio of	DB	PVFDB		Endow		Net	PV Net	PV Death &	**Segment**
Age	Dur	Mort	Prem	2001CSO	Seg	Per $1 DB	PVFGP	Benefit	KSt	Premium	Prems	Endow Ben	**Reserve**
35	1	0.00125	5.93	1.00	1	0.0658	103.37	46.92	1.16	1.23	114.05	114.05	-
36	2	0.00131	5.93	1.23	1	0.0673	101.46	48.85	1.16	6.87	117.49	117.49	**5.81**
37	3	0.00137	5.93	1.18	1	0.0688	99.49	50.87	1.16	6.87	115.20	121.01	**11.81**
38	4	0.00146	5.93	1.16	1	0.0702	97.43	52.98	1.16	6.87	112.82	124.62	**17.96**
39	5	0.00157	5.93	1.13	1	0.0717	95.30	55.18	1.16	6.87	110.35	128.31	**24.25**
40	6	0.00167	5.93	1.11	1	0.0731	93.09	57.48	1.16	6.87	107.79	132.05	**30.71**
41	7	0.00181	5.93	1.10	1	0.0745	90.80	59.88	1.16	6.87	105.14	135.85	**37.30**
42	8	0.00198	5.93	1.09	1	0.0758	88.42	62.39	1.16	6.87	102.39	139.69	**44.00**
43	9	0.00217	5.93	1.09	1	0.0770	85.96	65.01	1.16	6.87	99.54	143.54	**50.80**
44	10	0.00240	5.93	1.10	1	0.0781	83.42	67.76	1.16	6.87	96.59	147.39	**57.67**
45	11	0.00267	5.93	1.13	1	0.0790	80.78	70.64	1.16	6.87	93.54	151.20	**64.56**
46	12	0.00292	5.93	1.12	1	0.0797	78.05	73.66	1.16	6.87	90.38	154.94	**71.52**
47	13	0.00320	5.93	1.13	1	0.0802	75.23	76.83	1.16	6.87	87.11	158.63	**78.51**
48	14	0.00335	5.93	1.11	1	0.0805	72.30	80.16	1.16	6.87	83.72	162.23	**85.66**
49	15	0.00355	5.93	1.10	1	0.0806	69.26	83.65	1.16	6.87	80.20	165.85	**92.94**
50	16	0.00379	5.93	1.07	1	0.0806	66.10	87.30	1.16	6.87	76.53	169.47	**100.31**
51	17	0.00409	5.93	1.08	1	0.0803	62.81	91.14	1.16	6.87	72.73	173.04	**107.73**
52	18	0.00449	5.93	1.08	1	0.0798	59.40	95.18	1.16	6.87	68.78	176.51	**115.12**
53	19	0.00492	5.93	1.09	1	0.0788	55.86	99.43	1.16	6.87	64.68	179.80	**122.45**
54	20	0.00549	5.93	1.09	1	0.0774	52.18	103.92	1.16	6.87	60.42	182.87	**129.60**
55	21	0.00616	5.93	1.09	1	0.0754	48.37	108.67	1.16	6.87	56.01	185.61	**136.49**
56	22	0.00685	5.93	1.10	1	0.0727	44.41	113.72	1.16	6.87	51.42	187.91	**143.08**
57	23	0.00760	5.93	1.09	1	0.0693	40.29	119.08	1.16	6.87	46.66	189.74	**149.33**
58	24	0.00822	5.93	1.08	1	0.0649	36.01	124.79	1.16	6.87	41.70	191.03	**155.34**
59	25	0.00894	5.93	1.09	1	0.0598	31.54	130.86	1.16	6.87	36.53	191.86	**161.01**
60	26	0.00985	5.93	1.12	1	0.0537	26.88	137.32	1.16	6.87	31.12	192.14	**166.19**
61	27	0.01095	5.93	1.10	1	0.0465	22.00	144.24	1.16	6.87	25.48	191.66	**170.68**
62	28	0.01231	5.93	1.11	1	0.0378	16.90	151.67	1.16	6.87	19.57	190.25	**174.23**
63	29	0.01383	5.93	1.11	1	0.0274	11.55	159.70	1.16	6.87	13.38	187.61	**176.68**
64	30	0.01543	5.93	1.11	1	0.0148	5.93	168.42	1.16	6.87	6.87	183.55	-
65	31	0.01711	51.33	1.10	2	0.0165	51.33	-	0.33	16.78	16.78	16.78	-
66	32	0.01882	56.46	1.09	3	0.0181	56.46	-	0.33	18.46	18.46	18.46	-
67	33	0.02055	61.65	1.08	4	0.0198	61.65	-	0.33	20.15	20.15	20.15	-
68	34	0.02242	67.26	1.08	5	0.0216	67.26	-	0.33	21.99	21.99	21.99	-
69	35	0.02433	72.99	1.08	6	0.0234	72.99	-	0.33	23.86	23.86	23.86	-
70	36	0.02667	80.01	1.09	7	0.0256	80.01	-	0.33	26.15	26.15	26.15	-
71	37	0.02928	87.84	1.09	8	0.0282	87.84	-	0.33	28.71	28.71	28.71	-
72	38	0.03273	98.19	1.11	9	0.0315	98.19	-	0.33	32.10	32.10	32.10	-
73	39	0.03635	109.05	1.10	10	0.0350	109.05	-	0.33	35.65	35.65	35.65	-
74	40	0.04017	120.51	1.10	11	0.0386	120.51	-	0.33	39.39	39.39	39.39	-
75	41	0.04433	132.99	1.09	12	0.0426	132.99	-	0.33	43.47	43.47	43.47	-
76	42	0.04864	145.92	1.09	13	0.0468	145.92	-	0.33	47.70	47.70	47.70	-
77	43	0.05364	160.92	1.09	14	0.0516	160.92	-	0.33	52.60	52.60	52.60	-
78	44	0.05946	178.38	1.10	15	0.0572	178.38	-	0.33	58.31	58.31	58.31	-
79	45	0.06615	198.45	1.10	16	0.0636	198.45	-	0.33	64.87	64.87	64.87	-
80	46	0.07341	220.23	1.10	17	0.0706	220.23	-	0.33	71.99	71.99	71.99	-
81	47	0.08163	244.89	1.10	18	0.0785	244.89	-	0.33	80.05	80.05	80.05	-
82	48	0.09012	270.36	1.09	19	0.0867	270.36	-	0.33	88.38	88.38	88.38	-
83	49	0.09919	297.57	1.09	20	0.0954	297.57	-	0.33	97.27	97.27	97.27	-
84	50	0.10920	327.60	1.09	21	0.1050	327.60	-	0.33	107.09	107.09	107.09	-
85	51	0.12031	360.93	1.09	22	0.1157	360.93	-	0.33	117.98	117.98	117.98	-
86	52	0.13259	397.77	1.09	23	0.1275	397.77	-	0.33	130.02	130.02	130.02	-
87	53	0.14588	437.64	1.09	24	0.1403	437.64	-	0.33	143.06	143.06	143.06	-
88	54	0.16002	480.06	1.09	25	0.1539	480.06	-	0.33	156.92	156.92	156.92	-
89	55	0.17482	524.46	1.08	26	0.1681	524.46	-	0.33	171.44	171.44	171.44	-
90	56	0.19013	570.39	1.08	27	0.1828	570.39	-	0.33	186.45	186.45	186.45	-
91	57	0.20430	612.90	1.06	28	0.1964	612.90	-	0.33	200.35	200.35	200.35	-
92	58	0.21895	656.85	1.06	29	0.2105	656.85	-	0.33	214.71	214.71	214.71	-
93	59	0.23428	702.84	1.06	30	0.2253	702.84	-	0.33	229.75	229.75	229.75	-
94	60	0.25039	751.17	1.06	31	0.2408	751.17	-	0.33	245.54	245.54	245.54	-

Appendix 3: Sample Reserve Calculation - Minimum Unitary Reserves

Sample Reserve Calculation for Select-a-Term ROP 30 Year Product
American General Life
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount
MINIMUM UNITARY RESERVES

						contadj=	1.02		MAXEA=	14.52			Alpha=	0.22
						19Px+1 =	14.75		FPTEA=	2.29			Beta=	2.51
						cx=	0.22		EA=	2.29			K=	0.42
		2001		UQx,t	Gx,t					CV	PV	Theor	Val	
Att		CSO	X	Val	Gross		PV	PVFDB		Per	Endow	Net	Net	**Unitary**
Age	Dur	S&U	Factor	Mort	Prem	Ax	19Pay	Per $1 DB	PVFGP	Unit	Benefit	Prem	Prem	**Reserve**
35	1	0.58000	0.39	0.00023	5.93	0.1887	-	0.1851	570.52	-	50.35	0.22	0.22	-
36	2	0.72000	0.46	0.00033	5.93	0.1961	13.56	0.1923	587.31	-	52.37	2.51	2.51	**2.27**
37	3	0.86000	0.58	0.00050	5.93	0.2036	13.07	0.1998	604.84	-	54.49	2.51	2.51	**4.47**
38	4	1.01000	0.58	0.00059	5.93	0.2114	12.56	0.2074	623.17	-	56.69	2.51	2.51	**6.66**
39	5	1.15000	0.58	0.00067	5.93	0.2194	12.03	0.2152	642.31	1.52	59.00	2.51	2.51	**8.86**
40	6	1.29000	0.58	0.00075	5.93	0.2277	11.47	0.2233	662.28	4.84	61.40	2.51	2.51	**11.07**
41	7	1.43000	0.58	0.00083	5.93	0.2362	10.90	0.2316	683.11	8.34	63.90	2.51	2.51	**13.29**
42	8	1.57000	0.58	0.00091	5.93	0.2450	10.31	0.2403	704.85	12.03	66.51	2.51	2.51	**15.52**
43	9	1.73000	0.58	0.00100	5.93	0.2541	9.69	0.2492	727.54	15.90	69.24	2.51	2.51	**17.74**
44	10	1.92000	0.58	0.00111	5.93	0.2636	9.04	0.2584	751.23	19.99	72.08	2.51	2.51	**19.95**
45	11	2.18000	0.58	0.00126	5.93	0.2733	8.37	0.2679	775.98	24.29	75.05	2.51	2.51	**22.09**
46	12	2.47000	0.58	0.00143	5.93	0.2833	7.68	0.2777	801.86	28.82	78.15	2.51	2.51	**24.16**
47	13	2.81000	0.58	0.00163	5.93	0.2936	6.96	0.2878	828.96	33.60	81.39	2.51	2.51	**26.12**
48	14	3.14000	0.58	0.00182	5.93	0.3043	6.20	0.2982	857.35	38.64	84.78	2.51	2.51	**27.97**
49	15	3.47000	0.58	0.00201	5.93	0.3152	5.42	0.3089	887.09	43.95	88.33	2.51	2.51	**29.70**
50	16	3.76000	0.58	0.00218	5.93	0.3264	4.61	0.3199	918.25	49.56	92.05	2.51	2.51	**31.34**
51	17	4.09000	0.58	0.00237	5.93	0.3380	3.76	0.3312	950.89	55.48	95.94	2.51	2.51	**32.87**
52	18	4.44000	0.58	0.00258	5.93	0.3500	2.88	0.3429	985.09	61.74	100.02	2.51	2.51	**34.25**
53	19	4.90000	0.58	0.00284	5.93	0.3624	1.96	0.3549	1,020.96	68.37	104.29	2.51	2.51	**35.43**
54	20	5.39000	0.58	0.00313	5.93	0.3751	1.00	0.3673	1,058.64	75.41	108.77	2.51	2.51	**36.39**
55	21	5.94000	0.58	0.00345	5.93	0.3882	-	0.3801	1,098.25	82.88	113.47	2.51	2.51	**37.07**
56	22	6.57000	0.58	0.00381	5.93	0.4017	-	0.3932	1,139.94	90.82	118.42	2.51	2.51	**37.41**
57	23	7.24000	0.58	0.00420	5.93	0.4155	-	0.4067	1,183.88	99.29	123.63	2.51	2.51	**37.39**
58	24	7.92000	0.58	0.00459	5.93	0.4297	-	0.4205	1,230.24	108.30	129.12	2.51	2.51	**36.99**
59	25	8.68000	0.58	0.00503	5.93	0.4444	-	0.4347	1,279.16	117.92	134.90	2.51	2.51	**36.12**
60	26	9.85000	0.58	0.00571	5.93	0.4594	-	0.4493	1,330.85	128.20	141.01	2.51	2.51	**34.55**
61	27	10.95000	0.58	0.00635	5.93	0.4748	-	0.4643	1,385.84	139.62	147.49	2.51	2.51	**32.27**
62	28	12.31000	0.58	0.00714	5.93	0.4905	-	0.4795	1,444.28	152.10	154.37	2.51	2.51	**29.09**
63	29	13.83000	0.58	0.00802	5.93	0.5066	-	0.4951	1,506.64	164.20	161.70	2.51	2.51	**24.88**
64	30	15.43000	0.58	0.00895	5.93	0.5231	-	0.5110	1,573.36	177.90	169.53	2.51	2.51	-
65	31	17.11000	1.00	0.01711	51.33	0.5399	-	0.5272	1,644.84	-	-	21.72	21.72	-
66	32	18.82000	1.00	0.01882	56.46	0.5539	-	0.5404	1,686.10	-	-	23.89	23.89	-
67	33	20.55000	1.00	0.02055	61.65	0.5679	-	0.5536	1,727.34	-	-	26.09	26.09	-
68	34	22.42000	1.00	0.02242	67.26	0.5820	-	0.5669	1,768.66	-	-	28.46	28.46	-
69	35	24.33000	1.00	0.02433	72.99	0.5962	-	0.5801	1,810.04	-	-	30.89	30.89	-
70	36	26.67000	1.00	0.02667	80.01	0.6106	-	0.5935	1,851.58	-	-	33.86	33.86	-
71	37	29.28000	1.00	0.02928	87.84	0.6250	-	0.6067	1,892.92	-	-	37.17	37.17	-
72	38	32.73000	1.00	0.03273	98.19	0.6395	-	0.6198	1,933.91	-	-	41.55	41.55	-
73	39	36.35000	1.00	0.03635	109.05	0.6537	-	0.6326	1,973.74	-	-	46.15	46.15	-
74	40	40.17000	1.00	0.04017	120.51	0.6678	-	0.6450	2,012.43	-	-	50.99	50.99	-
75	41	44.33000	1.00	0.04433	132.99	0.6817	-	0.6570	2,049.95	-	-	56.28	56.28	-
76	42	48.64000	1.00	0.04864	145.92	0.6955	-	0.6686	2,086.11	-	-	61.75	61.75	-
77	43	53.64000	1.00	0.05364	160.92	0.7092	-	0.6798	2,120.96	-	-	68.09	68.09	-
78	44	59.46000	1.00	0.05946	178.38	0.7226	-	0.6904	2,153.99	-	-	75.48	75.48	-
79	45	66.15000	1.00	0.06615	198.45	0.7358	-	0.7002	2,184.52	-	-	83.98	83.98	-
80	46	73.41000	1.00	0.07341	220.23	0.7486	-	0.7089	2,211.83	-	-	93.19	93.19	-
81	47	81.63000	1.00	0.08163	244.89	0.7611	-	0.7165	2,235.36	-	-	103.63	103.63	-
82	48	90.12000	1.00	0.09012	270.36	0.7730	-	0.7225	2,254.09	-	-	114.41	114.41	-
83	49	99.19000	1.00	0.09919	297.57	0.7845	-	0.7267	2,267.42	-	-	125.92	125.92	-
84	50	109.20000	1.00	0.10920	327.60	0.7956	-	0.7289	2,274.22	-	-	138.63	138.63	-
85	51	120.31000	1.00	0.12031	360.93	0.8062	-	0.7284	2,272.66	-	-	152.73	152.73	-
86	52	132.59000	1.00	0.13259	397.77	0.8164	-	0.7244	2,260.12	-	-	168.32	168.32	-
87	53	145.88000	1.00	0.14588	437.64	0.8259	-	0.7157	2,232.90	-	-	185.19	185.19	-
88	54	160.02000	1.00	0.16002	480.06	0.8349	-	0.7006	2,185.96	-	-	203.14	203.14	-
89	55	174.82000	1.00	0.17482	524.46	0.8432	-	0.6770	2,112.11	-	-	221.93	221.93	-
90	56	190.13000	1.00	0.19013	570.39	0.8509	-	0.6413	2,000.97	-	-	241.37	241.37	-
91	57	204.30000	1.00	0.20430	612.90	0.8579	-	0.5888	1,837.09	-	-	259.35	259.35	-
92	58	218.95000	1.00	0.21895	656.85	0.8645	-	0.5128	1,600.05	-	-	277.95	277.95	-
93	59	234.28000	1.00	0.23428	702.84	0.8708	-	0.4025	1,255.90	-	-	297.41	297.41	-
94	60	250.39000	1.00	0.25039	751.17	0.8768	-	0.2408	751.17	-	-	317.86	317.86	-

Appendix 4: Sample Reserve Calculation - Minimum Segmented Reserves

Sample Reserve Calculation for Select-a-Term ROP 30 Product
AIG/American General Life
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount
MINIMUM SEGMENTED RESERVES

				contadj=	1.02		MAXEA=	14.52			Alpha=	0.22
				19Px+1 =	14.75		FPTEA=	4.97			Beta=	5.19
				cx=	0.22		EA=	4.97			K=	0.88
		UQx,t	Gx,t	Segmented		PV		Theor	Actual	Calc to Expiry @ 95		
Att		Val	Gross	PVFDB		Endow		Seg Net	Seg Net	PV Net	PV Death &	**Segment**
Age	Dur	Mort	Prem	Per $1 DB	PVFGP	Benefit	KSt	Premium	Premium	Prems	Endow Ben	**Reserve**
35	1	0.00023	5.93	0.0359	105.01	50.35	0.88	0.22	0.22	86.97	86.97	-
36	2	0.00033	5.93	0.0371	103.07	52.37	0.88	5.19	5.19	90.24	90.24	**5.06**
37	3	0.00050	5.93	0.0383	101.05	54.49	0.88	5.19	5.19	88.47	93.54	**10.16**
38	4	0.00059	5.93	0.0393	98.98	56.69	0.88	5.19	5.19	86.66	96.82	**15.38**
39	5	0.00067	5.93	0.0404	96.83	59.00	0.88	5.19	5.19	84.77	100.15	**20.73**
40	6	0.00075	5.93	0.0413	94.60	61.40	0.88	5.19	5.19	82.82	103.55	**26.21**
41	7	0.00083	5.93	0.0423	92.28	63.90	0.88	5.19	5.19	80.79	107.01	**31.84**
42	8	0.00091	5.93	0.0432	89.88	66.51	0.88	5.19	5.19	78.69	110.53	**37.62**
43	9	0.00100	5.93	0.0440	87.39	69.24	0.88	5.19	5.19	76.51	114.13	**43.54**
44	10	0.00111	5.93	0.0448	84.80	72.08	0.88	5.19	5.19	74.25	117.79	**49.61**
45	11	0.00126	5.93	0.0456	82.12	75.05	0.88	5.19	5.19	71.90	121.50	**55.77**
46	12	0.00143	5.93	0.0462	79.34	78.15	0.88	5.19	5.19	69.46	125.23	**62.03**
47	13	0.00163	5.93	0.0466	76.45	81.39	0.88	5.19	5.19	66.93	128.96	**68.36**
48	14	0.00182	5.93	0.0470	73.46	84.78	0.88	5.19	5.19	64.32	132.67	**74.77**
49	15	0.00201	5.93	0.0471	70.36	88.33	0.88	5.19	5.19	61.60	136.37	**81.27**
50	16	0.00218	5.93	0.0471	67.14	92.05	0.88	5.19	5.19	58.79	140.06	**87.89**
51	17	0.00237	5.93	0.0469	63.80	95.94	0.88	5.19	5.19	55.86	143.75	**94.61**
52	18	0.00258	5.93	0.0465	60.33	100.02	0.88	5.19	5.19	52.82	147.43	**101.43**
53	19	0.00284	5.93	0.0459	56.72	104.29	0.88	5.19	5.19	49.66	151.09	**108.29**
54	20	0.00313	5.93	0.0450	52.97	108.77	0.88	5.19	5.19	46.38	154.67	**115.20**
55	21	0.00345	5.93	0.0438	49.08	113.47	0.88	5.19	5.19	42.97	158.17	**122.11**
56	22	0.00381	5.93	0.0423	45.03	118.42	0.88	5.19	5.19	39.42	161.54	**129.00**
57	23	0.00420	5.93	0.0403	40.82	123.63	0.88	5.19	5.19	35.74	164.74	**135.85**
58	24	0.00459	5.93	0.0379	36.44	129.12	0.88	5.19	5.19	31.90	167.75	**142.65**
59	25	0.00503	5.93	0.0350	31.88	134.90	0.88	5.19	5.19	27.91	170.56	**149.37**
60	26	0.00571	5.93	0.0315	27.12	141.01	0.88	5.19	5.19	23.74	173.12	**155.81**
61	27	0.00635	5.93	0.0272	22.16	147.49	0.88	5.19	5.19	19.40	175.22	**162.00**
62	28	0.00714	5.93	0.0221	16.99	154.37	0.88	5.19	5.19	14.88	176.87	**167.79**
63	29	0.00802	5.93	0.0159	11.59	161.70	0.88	5.19	5.19	10.14	177.94	**173.11**
64	30	0.00895	5.93	0.0086	5.93	169.53	0.88	5.19	5.19	5.19	178.30	-
65	31	0.01711	51.33	0.0165	51.33	-	0.33	16.78	16.78	16.78	16.78	-
66	32	0.01882	56.46	0.0181	56.46	-	0.33	18.46	18.46	18.46	18.46	-
67	33	0.02055	61.65	0.0198	61.65	-	0.33	20.15	20.15	20.15	20.15	-
68	34	0.02242	67.26	0.0216	67.26	-	0.33	21.99	21.99	21.99	21.99	-
69	35	0.02433	72.99	0.0234	72.99	-	0.33	23.86	23.86	23.86	23.86	-
70	36	0.02667	80.01	0.0256	80.01	-	0.33	26.15	26.15	26.15	26.15	-
71	37	0.02928	87.84	0.0282	87.84	-	0.33	28.71	28.71	28.71	28.71	-
72	38	0.03273	98.19	0.0315	98.19	-	0.33	32.10	32.10	32.10	32.10	-
73	39	0.03635	109.05	0.0350	109.05	-	0.33	35.65	35.65	35.65	35.65	-
74	40	0.04017	120.51	0.0386	120.51	-	0.33	39.39	39.39	39.39	39.39	-
75	41	0.04433	132.99	0.0426	132.99	-	0.33	43.47	43.47	43.47	43.47	-
76	42	0.04864	145.92	0.0468	145.92	-	0.33	47.70	47.70	47.70	47.70	-
77	43	0.05364	160.92	0.0516	160.92	-	0.33	52.60	52.60	52.60	52.60	-
78	44	0.05946	178.38	0.0572	178.38	-	0.33	58.31	58.31	58.31	58.31	-
79	45	0.06615	198.45	0.0636	198.45	-	0.33	64.87	64.87	64.87	64.87	-
80	46	0.07341	220.23	0.0706	220.23	-	0.33	71.99	71.99	71.99	71.99	-
81	47	0.08163	244.89	0.0785	244.89	-	0.33	80.05	80.05	80.05	80.05	-
82	48	0.09012	270.36	0.0867	270.36	-	0.33	88.38	88.38	88.38	88.38	-
83	49	0.09919	297.57	0.0954	297.57	-	0.33	97.27	97.27	97.27	97.27	-
84	50	0.10920	327.60	0.1050	327.60	-	0.33	107.09	107.09	107.09	107.09	-
85	51	0.12031	360.93	0.1157	360.93	-	0.33	117.98	117.98	117.98	117.98	-
86	52	0.13259	397.77	0.1275	397.77	-	0.33	130.02	130.02	130.02	130.02	-
87	53	0.14588	437.64	0.1403	437.64	-	0.33	143.06	143.06	143.06	143.06	-
88	54	0.16002	480.06	0.1539	480.06	-	0.33	156.92	156.92	156.92	156.92	-
89	55	0.17482	524.46	0.1681	524.46	-	0.33	171.44	171.44	171.44	171.44	-
90	56	0.19013	570.39	0.1828	570.39	-	0.33	186.45	186.45	186.45	186.45	-
91	57	0.20430	612.90	0.1964	612.90	-	0.33	200.35	200.35	200.35	200.35	-
92	58	0.21895	656.85	0.2105	656.85	-	0.33	214.71	214.71	214.71	214.71	-
93	59	0.23428	702.84	0.2253	702.84	-	0.33	229.75	229.75	229.75	229.75	-
94	60	0.25039	751.17	0.2408	751.17	-	0.33	245.54	245.54	245.54	245.54	-

Appendix 5: Sample Reserve Summary - Minimum Segmented Reserves

Sample Reserve Calculation for Select-a-Term ROP 30 Product										
American General Life										
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount										
RESERVE SUMMARY										
Att		BASE RESERVES				MINIMUM RESERVES				Deficiency
Age	Dur	Unitary	Segmented	Actual		Unitary	Segmented	Actual		Reserve
35	1	-	-	-		-	-	-		-
36	2	1.62	5.81	5.81		2.27	5.06	5.06		-
37	3	3.25	11.81	11.81		4.47	10.16	10.16		-
38	4	4.85	17.96	17.96		6.66	15.38	15.38		-
39	5	6.41	24.25	24.25		8.86	20.73	20.73		-
40	6	7.94	30.71	30.71		11.07	26.21	26.21		-
41	7	9.38	37.30	37.30		13.29	31.84	31.84		-
42	8	10.71	44.00	44.00		15.52	37.62	37.62		-
43	9	11.91	50.80	50.80		17.74	43.54	43.54		-
44	10	12.93	57.67	57.67		19.95	49.61	49.61		-
45	11	13.71	64.56	64.56		22.09	55.77	55.77		-
46	12	14.28	71.52	71.52		24.16	62.03	62.03		-
47	13	14.59	78.51	78.51		26.12	68.36	68.36		-
48	14	14.76	85.66	85.66		27.97	74.77	74.77		-
49	15	14.74	92.94	92.94		29.70	81.27	81.27		-
50	16	14.48	100.31	100.31		31.34	87.89	87.89		-
51	17	13.90	107.73	107.73		32.87	94.61	94.61		-
52	18	12.89	115.12	115.12		34.25	101.43	101.43		-
53	19	11.40	122.45	122.45		35.43	108.29	108.29		-
54	20	9.26	129.60	129.60		36.39	115.20	115.20		-
55	21	6.35	136.49	136.49		37.07	122.11	122.11		-
56	22	2.59	143.08	143.08		37.41	129.00	129.00		-
57	23	-	149.33	149.33		37.39	135.85	135.85		-
58	24	-	155.34	155.34		36.99	142.65	142.65		-
59	25	-	161.01	161.01		36.12	149.37	149.37		-
60	26	-	166.19	166.19		34.55	155.81	155.81		-
61	27	-	170.68	170.68		32.27	162.00	162.00		-
62	28	-	174.23	174.23		29.09	167.79	167.79		-
63	29	-	176.68	176.68		24.88	173.11	173.11		-
64	30	-	-	-		-	-	-		-
65	31	-	-	-		-	-	-		-
66	32	-	-	-		-	-	-		-
67	33	-	-	-		-	-	-		-
68	34	-	-	-		-	-	-		-
69	35	-	-	-		-	-	-		-
70	36	-	-	-		-	-	-		-
71	37	-	-	-		-	-	-		-
72	38	-	-	-		-	-	-		-
73	39	-	-	-		-	-	-		-
74	40	-	-	-		-	-	-		-
75	41	-	-	-		-	-	-		-
76	42	-	-	-		-	-	-		-
77	43	-	-	-		-	-	-		-
78	44	-	-	-		-	-	-		-
79	45	-	-	-		-	-	-		-
80	46	-	-	-		-	-	-		-
81	47	-	-	-		-	-	-		-
82	48	-	-	-		-	-	-		-
83	49	-	-	-		-	-	-		-
84	50	-	-	-		-	-	-		-
85	51	-	-	-		-	-	-		-
86	52	-	-	-		-	-	-		-
87	53	-	-	-		-	-	-		-
88	54	-	-	-		-	-	-		-
89	55	-	-	-		-	-	-		-
90	56	-	-	-		-	-	-		-
91	57	-	-	-		-	-	-		-
92	58	-	-	-		-	-	-		-
93	59	-	-	-		-	-	-		-
94	60	-	-	-		-	-	-		-

Appendix 6: Unusual Cash Value Test Demonstration

Sample Unusual Cash Value Test for Select-a-Term ROP 30 Product					
American General Life					
Male, Issue Age 35, Std. NonTobacco, $100,000 Face Amount					
	(1)	(2)	(3)	(4)	
		EOY	Change in		Is (3) > (4)?
Policy	Gross	Cash	Cash	Test	Unusual
Year	Premium	Value	Value	Value*	CV?
1	5.93	-	-	6.8492	No
2	5.93	-	-	6.8492	No
3	5.93	-	-	6.8492	No
4	5.93	-	-	6.8492	No
5	5.93	1.52	1.52	6.8492	No
6	5.93	4.84	3.32	6.9328	No
7	5.93	8.34	3.50	7.1154	No
8	5.93	12.03	3.69	7.3079	No
9	5.93	15.90	3.87	7.5108	No
10	5.93	19.99	4.09	7.7237	No
11	5.93	24.29	4.30	7.9486	No
12	5.93	28.82	4.53	8.1851	No
13	5.93	33.60	4.78	8.4343	No
14	5.93	38.64	5.04	8.6972	No
15	5.93	43.95	5.31	8.9744	No
16	5.93	49.56	5.61	9.2664	No
17	5.93	55.48	5.92	9.5750	No
18	5.93	61.74	6.26	9.9006	No
19	5.93	68.37	6.63	10.2449	No
20	5.93	75.41	7.04	10.6095	No
21	5.93	82.88	7.47	10.9967	No
22	5.93	90.82	7.94	11.4076	No
23	5.93	99.29	8.47	11.8443	No
24	5.93	108.30	9.01	12.3101	No
25	5.93	117.92	9.62	12.8057	No
26	5.93	128.20	10.28	13.3348	No
27	5.93	139.62	11.42	13.9002	No
28	5.93	152.10	12.48	14.5283	No
29	5.93	164.20	12.10	15.2147	No
30	5.93	177.90	13.70	15.8802	No
31	51.33	-	(177.90)	69.0707	No
32	56.46	-	-	65.2113	No
33	61.65	-	-	71.2058	No
34	67.26	-	-	77.6853	No
35	72.99	-	-	84.3035	No

Nonforfeiture Rate = 5.00%

* Test Value = 1.1*[Gross Prem+.05*(Gross Prem + CV@t-1)]