

# Secondary Guarantees – UL & VUL Products

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# Presentation Overview

- For Universal Life and Variable Life Products
  - Description of Secondary Guarantee Provisions
  - Valuation Changes and Their Impact on Secondary Guarantee Designs
  - Methods Used to Manage the Financial Impact of XXX and AXXX
  - Impact of the 2001 CSO Mortality Table
- Reinsurance Market Overview
  - UL Secondary Guarantees
  - Current Environment

# **Universal Life Overview**

## Description of Secondary Guarantee Provisions

- Stipulated Level Premium
  - Most common
  - Provides a guarantee of X years so long as a specified level annual premium of Y is paid.
  - Typically has little funding flexibility
    - May provide an interest discount for pre-payment of premium.
    - May provide a catch-up provision.

## Description of Secondary Guarantee Provisions

- Shadow Accounts
  - Policy will not lapse so long as a secondary policy account has positive value.
    - Not clear-cut to the consumer.
  - COI guarantees  $<$  1980 CSO and an interest rate  $>$  policy guarantees.
  - Total flexibility in structuring a secondary guarantee period on a policy.
    - Better pre-payment value by discounting pre-payments

## Description of Secondary Guarantee Provisions

- Annually Renewable Term
  - A cross between Stipulated Level Premium and Shadow Account Designs.
    - A defined premium structure like the level premium approach.
    - Interest discounting provides funding flexibility of Shadow Account designs.
  - Provides many advantages of a Shadow Account design and can be administered on a system that can handle a Stipulated Level Premium design.

# Valuation Changes

## Impact on Secondary Guarantee Designs

- History
  - Initially no additional reserving requirements
    - Some Companies used a Gross Premium Valuation w/ PADS.
  - Valuation of Life Insurance Policies Model Regulation #830 (Guideline XXX)
    - Addresses the perceived inadequate reserve levels on secondary guarantee UL contracts.
  - Actuarial Guideline AXXX
    - Addresses how to appropriately value certain secondary guarantee designs under Guideline XXX.

## Valuation Pre-XXX

- Offered long-term secondary guarantees and held the UL-CRVM reserve
  - UL Model Regulation did not address long-term guarantees.
- Some companies did recognize that the UL-CRVM reserve may not be sufficient.
  - Gross Premium Valuations used to become more comfortable that the UL-CRVM level was sufficient.



## Valuation – The Impact of XXX

- Expected that secondary guarantee designs would now have reserve levels similar to traditional life contracts.
  - The new method for determining deficiency reserves resulted in large initial surplus strains
  - Depending on X-factors for the company
- Of course, the impact of XXX was not the same for all secondary guarantee designs...

## Valuation – The Impact of XXX

- XXX does not apply to Shadow Account designs?
  - Policy forms did not have a specified premium(s).
  - That view ultimately went away.
- Today most view Shadow Account designs as a series of 1-year minimum premium guarantees for XXX.
  - The series of guarantees structured to be a single segment as defined under XXX (Section 4B).

## Valuation – The Impact of XXX

- The resulting XXX reserve level for Shadow Accounts was at the  $\frac{1}{2} c_x$  level using the unitary method.
- The same XXX result occurs on ART designs.
  - This fueled their rise in popularity.

## Valuation – The Impact of AXXX

- Actuarial Guideline AXXX addressed two issues.
  - Adjusting XXX reserves a “catch-up” provision.
    - Retroactive to the earlier of a state’s adoption of XXX or the NAIC Accounting Practices and Procedures Manual.
  - Adjusting XXX reserves when the secondary guarantee is being pre-funded.
    - Applies to contracts issued on or after the later of the date of a state’s adoption of XXX and 1/1/2003.

## Valuation – The Impact of AXXX

- Adjusting XXX reserves for a catch-up provision
  - Basic and Deficiency reserves are computed as if the secondary guarantee premium requirements are met.
- Basic reserve is reduced by:

$$\text{Catch – Up} \times \frac{\text{Basic Reserve}}{\text{Basic + Deficiency Reserve}}$$

- Basic reserve may not be less than zero.

## Valuation – The Impact of AXXX

- Deficiency Reserve is reduced by

$$\text{Catch - Up} \times \frac{\text{Deficiency Reserve}}{\text{Basic} + \text{Deficiency Reserve}}$$

- Deficiency reserve may not be less than zero.
- Adjustment for a catch-up provision effectively only impacts a Stipulated Level Premium design.

## Valuation – The Impact of AXXX

- Adjusting XXX reserves for pre-funding the secondary guarantee premiums.
  - To establish appropriate reserve levels for Shadow Account and ART designs.
  - Impacts Stipulated Level Premium designs, but not as dramatically.

## Valuation – The Impact of AXXX

Steps for adjusting XXX reserves for pre-funding

1. Establish minimum gross premiums at issue that satisfy the secondary guarantee requirement.
  - For Shadow Accounts = the series of 1 year minimum premiums.
2. Determine basic and deficiency reserves by applying 7B and 7C of the XXX Model Regulation.
  - For Shadow Account and ART designs, unitary reserves ( $\frac{1}{2} c_x$ ) are developed



## Valuation – The Impact of AXXX

3. Determine amount of actual premiums paid in excess of minimum gross premiums from step 1.
  - For Shadow Account designs = the value of the shadow account.
  - For ART and Stipulated Level Premium contracts = cumulative premiums paid in excess of minimum secondary guarantee requirements.
    - Adjusted with interest credited at the rate specified under the secondary guarantee.

## Valuation – The Impact of AXXX

4. Determine the single premium payment necessary at the valuation date to fully fund the secondary guarantee.
  - Assume no previous pre-funding. I.e. For a Shadow Account design the value of the shadow account is zero
  - Divide the result in Step 3 by the result in Step 4.

## Valuation – The Impact of AXXX

5. Compute a net single premium on the valuation date for the coverage provided by the secondary guarantee for the remainder of the secondary guarantee period.
  - Use any value table and select factors authorized in Section 5A of the XXX Model Regulation.
    - This allows the use of the 10-year select factors incorporated into the 1980 amendments to the SVL or the 19-year select mortality factors in the XXX Model Regulation.
    - X-factors may not be used.

## Valuation – The Impact of AXXX

- Determine the “net amount of additional premiums” by multiplying by multiplying ratio developed in Step 4 by the difference in the NSP from Step 5 and the XXX basic & deficiency reserves calculated in Step 2.

$$\textit{Step 6} = \textit{Step 4} \times (\textit{Step 5} - \textit{Step 2})$$

- This is the maximum amount of additional reserve impact from AXXX.

## Valuation – The Impact of AXXX

7. Calculate a “reduced deficiency reserve” by multiplying the deficiency reserve by  $1 - \text{the ratio from Step 4}$ .
  - Cannot be less than zero.
  - By pre-funding, part of the deficiency reserve can be turned into basic reserve.
    - A potential benefit from a tax reporting perspective.

## Valuation – The Impact of AXXX

8. Total Reserve is the lesser of the NSP from Step 5 and the amount of Step 6 plus the total basic and deficiency reserves
- This amount should be reduced by policy surrender charges.
    - Note the guideline indicates surrender charges are the account value less the cash surrender value.
  - If this amount is less than the basic and deficiency reserves from Step 2, then the Step 2 reserves are to be used and no further calculation is required.

## Valuation – The Impact of AXXX

### 9. Determination of increased basic reserve

- The increased basic reserve is equal to the total reserve from Step 8 less the reduced deficiency reserve from Step 7.
- Easy to see impact and formula usage through a simple example at one duration...

## Impact of Regulation AXXX

<b>Current AV</b>	<b>45.24</b>	<b>Step 2</b>	<b>2.46</b>
<b>Current CSV</b>	<b>22.39</b>	<b>Step 3</b>	<b>38.88</b>
<b>Surrender Charge</b>	<b>22.85</b>	<b>Step 4</b>	<b>145.92</b>
<b>UL CRVM Res</b>	<b>33.82</b>	<b>Ratio</b>	<b>27%</b>
		<b>Step 5</b>	<b>341.94</b>
		<b>Step 6</b>	<b>90.44</b>
		<b>Step 7</b>	<b>0.00</b>
		<b>Step 8</b>	<b>70.05</b>
		<b>Step 9</b>	<b>70.05</b>

- Policy Reserves increased from 33.82 to 70.05 due to the impact of AXXX.



# Methods Used to Manage the Financial Impact of XXX and AXXX

- Product Design
  - Significant effort today to minimize the impact of AXXX on Shadow Account and ART designs.
  - Focused on introducing features limiting early duration build-up of pre-payment values.

# Methods Used to Manage the Financial Impact of XXX and AXXX

- Surplus Relief
  - Executed within the corporation or using an outside reinsurance facility.
  - While saving the company's own capital, the cost for the surplus relief has not sufficiently improved product returns to the company.

## Methods Used to Manage the Financial Impact of XXX and AXXX

- Reinsurance
  - Reinsurance companies willing to reinsure both the mortality and no-lapse risk on the contract.
  - Some arrangements back-load the cost of the surplus relief for the insurance company.
    - Allowed the insurer to earn an acceptable return.
  - Unfortunately, current market conditions have severely limited reinsurance outlets.

## Methods Used to Manage the Financial Impact of XXX and AXXX

- Other
  - Use of alternate accounting methods to determine whether or not the a policy with the secondary guarantee truly adds value to the company.
    - GAAP (incremental basis)
    - PPM for Canadian companies
  - OK as long as the company does an effective job of managing statutory capital.

## Impact of the 2001 CSO Mortality Table

- Could see a decrease in level secondary DB guarantee premiums as a result of reserve relief from use of new table
- Note that typical of UL pricing, funding a pricing model with less premium yields higher profits due to increase in COI charges
  - 15 to 20 % reduction to level premiums possible to reach baseline profits; however, great likelihood of putting the “option into the money”
- Probably will see 5-10% decreases in level premiums
  - Impact varies by age and class

## Case Study - UL

### Product Parameters:

- Annually Renewable Term Premium design with a competitive lifetime guarantee.
- Review Impact of XXX and AXXX on design
- Add a reinsurance arrangement to reach double digit profit targets
- Arrangement is an 90% first dollar, YRT agreement
- Mortality and financial reinsurance
- Financial reinsurance is for ceding of the difference between XXX and CRVM reserves

## Case Study - UL

### Model Office Parameters:

- \$10,000,000 of first year new premium
- \$1,000,000 face amount policies
- 4 age, male model: 35, 45, 55, 65, 75
- Risk classes are SPNS, PNS, SNS, SSM

## Pre-XXX/Pre-AXXX Results

Profitability	
Measure	Baseline
IRR	14.54%
PVDE	\$3,510,500
Profit Margin	3.83%

- No secondary guarantee
- Premium funding at level pay to endow
- Based on current assumptions



## Impact of Regulation XXX

Profitability	
Measure	XXX
IRR	13.03%
PVDE	\$3,588,000
Profit Margin	3.14%

- Secondary guarantee added, e.g by rider
- YRT design yields no additional reserve impact from XXX
- Profit declines due to premium increase for guarantee
  - Premium to endow based upon current charges and a reduced interest rate

## Impact of Regulation AXXX

Profitability	
Measure	AXXX
IRR	6.63%
PVDE	\$250,600
Profit Margin	0.22%

- Section 4 of AXXX for a YRT secondary guarantee produces reserves much higher than priced for
- “Pre-funding” of provision hurts
  - Paid level premium vs. stipulated YRT premium

## Impact of Regulation AXXX

Model Office Reserve Comparison By Duration					
(in millions)					
Method	5	10	20	30	40
XXX	38	92	251	432	560
AXXX	49	123	278	445	560

- Reserve build-up
  - Cross-over point exists, but at late duration
- Need to find a solution
  - Reinsurance
  - Re-tooling product to manage the “pre-funding ratio”

## Impact of the 2001 CSO Table

1980 CSO vs. 2001 CSO - Baseline			
Measure	1980 CSO	2001 CSO	Difference
IRR	14.54%	15.05%	0.51%
PVDE	\$3,510,500	\$3,427,100	-\$83,400
Profit Margin	3.83%	3.74%	-0.09%

- Reserves decrease, so do surrender charges
- Strain decreases, so does profit stream
- Basically, a wash

## Impact of the 2001 CSO Table

1980 CSO vs. 2001 CSO - Secondary Guarantee Under AXXX			
Measure	1980 CSO	2001 CSO	Difference
IRR	6.63%	8.08%	1.45%
PVDE	\$250,600	\$1,878,000	\$1,627,400
Profit Margin	0.22%	1.64%	1.42%

- Reserve decrease more substantial, outweighs decrease in surrender charges
- Strain decreases with increases to profit stream
- Improves results for secondary guarantee provisions

## UL Case Study Summary

- XXX and AXXX have companies scrambling to find a solution without raising consumer prices
  - Who will raise prices first and at what cost?
  - Help is coming with 2001 CSO table, but will it be enough?
  - New designs will emerge over the next 6-12 months
    - Beware of designs that seem abusive
    - Regulators may implement the “next” or “revised” guideline on a retroactive basis for abusive designs

## Closing Remarks

- Changes in Regulations often create opportunity to capture more market share through innovative product designs and alternative solutions.
- The full impact of AXXX is just now impacting companies.
- The next year should bring a flurry of new product activity from both insurance and reinsurance companies.

# **Variable Universal Life Overview**



## General Description

- Secondary Guarantees have been on VUL contracts for many years in the form of GMDB Benefits.
  - While commonly referred to as a GMDB benefit the risk profile under a VUL contract is very different from a VA contract.
  - Direct and reinsurance companies too often lump the structures together under one GMDB umbrella.
    - Leads to challenges introducing new designs to the market.

## General Description

- Contracts currently offer guarantees for as short as 5 years to as long as a lifetime benefit
  - Short term guarantees
    - 5-10 years
    - Tied to contract minimum premium
    - Avoids early policy lapse by providing time to buildup sufficient cash surrender values.
  - Lifetime guarantees offered by many companies.
    - Premium requirements are typically 80 – 100% of the guideline level premium.
    - Not competitive with UL secondary guarantees.

# Valuation Requirements

- Historically companies have not applied uniform reserve standards to GMDBs
- Regulatory sources that companies have looked to for guidance:
  - Standard Valuation Law
  - Variable Life Insurance Model Regulation ('83 & '89 revisions)
  - Universal Life Insurance Model Regulation
  - Valuation of Life Insurance Model Regulation (XXX)

## Why do companies not follow the VL Model Regulation?

- Many states have not passed either the '83 or '89 revision
- Companies therefore either look to the SVL or the UL Model Regulation for guidance.
- Companies that used the UL Model Regulation were holding no additional reserve for the secondary guarantee
  - Same situation we had with Universal Life until XXX.

## Actuarial Guideline XXXVII

- Set forth appropriate valuation methodology for secondary guarantees on Variable Universal Life Insurance.
- The guideline focused on the 1989 revisions of the Variable Life Model Regulation.

## Actuarial Guideline XXXVII

- Establishes the methodology for reserves to be held in addition to the basic policy reserve when a secondary guarantee is present on a VUL contract.
- The additional reserve =  $\text{MAX}(\text{OYT}, \text{AALR})$ 
  - OYT = One-Year Term reserve
  - AALR = Attained Age Level reserve

## Actuarial Guideline XXXVII

- Defines method for calculating OYT reserve and AALR.
  - Project policy values using:
    - the valuation interest rate
    - COI charges equal to minimum valuation mortality
    - Premiums required to maintain the guarantee
    - No other credits or charges (I.e. policy loads are not used)
  - Assume contingent requirements to continue guarantee met.
    - I.e. “catch-up provision” is satisfied.
  - Projection of policy values for entire guarantee period
    - Even if projected values go negative.
    - Negative policy value set to zero.

## OYT reserve

- Equals the “aggregate total of term costs”, if any, covering a period no more than one year from the valuation date.
  - “Aggregate total term costs” = PV of guaranteed death benefits provided for in absence of guarantee.
  - A death benefit provided for in absence of the guarantee is provided as long as the projected policy value  $> 0$ .
  - Project policy values assuming an immediate 1/3 drop in separate account asset values and using assumptions outlined earlier.



## OYT Reserve

- If the one year projected policy value after the 1/3 drop is  $> 0$ , then the OYT Reserve is zero.
- If the projected policy value is  $< 0$ , then a reserve is established for the portion of the year not covered by the project value.
  - Maximum OYT Reserve =  $c_x$

# AALR

- Designed to fund any deficiency in the secondary guarantee premium over the secondary guarantee period.
- Structured to build and decrease slowly through periods of weak and strong performance in the policy's investments in the separate account.
- If an extended period of favorable investment performance results in redundant reserves, may be able to release all or part of the redundant reserves.

# AALR

- The reserve can never be less than zero.
- The reserve is equal to the “residue” of the prior year’s AALR, increased or decreased by a “payment”.
- Residue is equal to:
  - Prior year’s AALR increased at the valuation interest rate
  - Less tabular claims not payable in the absence of the guarantee
  - Divided by the probability of survival

$$\frac{AALR_{t-1}(1 + i_v) - (vq_{x+t}(if - AV_t = 0))}{1 - q_{x+t}}$$

# AALR

- AALR
  - Payment is equal to:
    - PV of future guaranteed minimum death benefits (A), less
    - PV of projected future death benefits payable in the absence of the secondary guarantee (B), less
    - Prior year's residue (C)
    - Funded over the remaining period for the secondary guarantee.
    - Note that  $(A) - (B)$  is to be floored at zero.

# AALR

$$\text{Payment} = \frac{A - B - C}{\ddot{a}_{x+t:gp-t}}$$

$gp$  = *guarantee* · *period*

$GP$  = *guarantee* · *premium*

$$A = A_{x+t:gp-t}$$

$$B = AV_t + GP \ddot{a}_{x+t:gp-t}$$

$$C = \text{Residue}_{t-1}$$

## Recent Developments

- Guarantees maintained solely based on the funding allocated to the fixed account.
  - Removing the volatility potential in the separate account can result in premiums competitive with UL secondary guarantee premiums.
  - Approach may raise questions on appropriate valuation methodology
    - XXX (AXXX) or XXXVII.

## Recent Developments

- Restrictions on the separate account investments.
  - Placing restrictions on investments reduces volatility of returns, while limiting the sacrifice in terms of yields.
    - Allows the insurer to manage the separate account risk that has been passed from the policyowner to the insurer by offering the guarantee.
  - May allow for more affordable long-term guarantees.

## Case Study – VUL

- VUL contract designed specifically for low level premium sales.
  - Low target premium
  - High early duration policy loads
  - Current assumption level premiums to carry policy to maturity very competitive against similar UL designs.



# Key Policy Design and Pricing Parameters

- Charge Structure:
  - 3 COI Bands
    - 0 – 249K / 249 – 999K / 1M+
    - Vary by class: 4 Nonsmoker / 2 Smoker
  - High Per Unit Loads for first 4 policy years.
    - Also vary by band & class
- Pricing Assumptions:
  - All premiums to Separate Account
  - Separate Account Yield net of expenses: 9%

## Base Policy Profitability Results

- Assumed Premium = Level pay, term fund to maturity @ 5.75%
- Profit Results:
  - 1<sup>st</sup> Year Surplus Strain = 76.61% of Premium
  - Profit Margin = 7.06%
    - P.V. Profits / P.V. Premium @ 6.75%
  - Statutory IRR = 20.21%

## Secondary Guarantee Rider Design

- Required Premium = Level Premium to Maturity @ 5%
  - Premium Level 25-50% higher than assumed premium on base policy pricing.
- Additional level lifetime unit load added to rider to offset additional risk and reserve costs.
  - Unit load greater than the .01 / 1,000 / month typically associated with VUL secondary guarantees.

# Secondary Guarantee Rider Profit Results

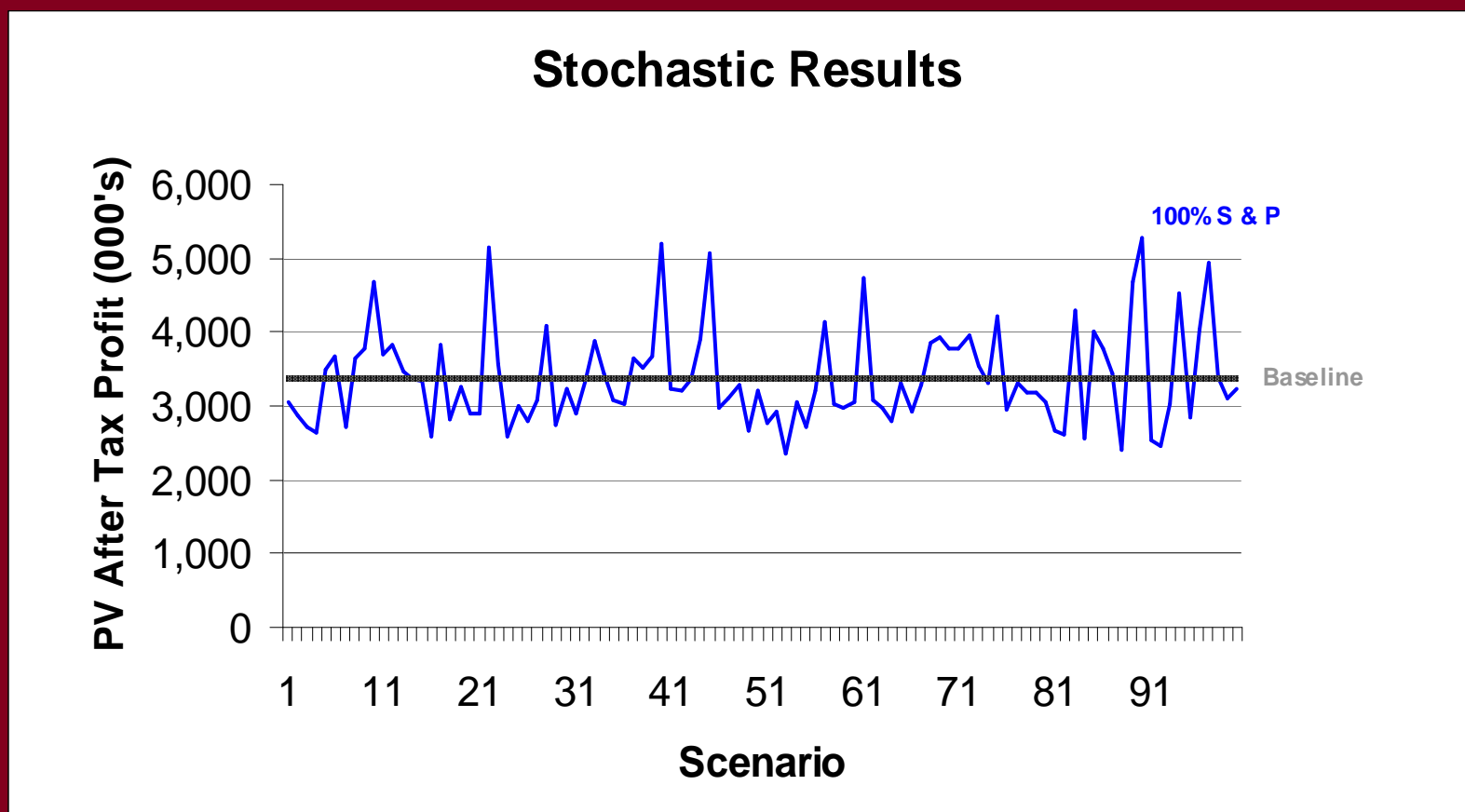
- Deterministic Scenario
  - Static Net Yield in Separate Account @ 9%
  - Secondary guarantee never “in the money”
- Profit Results
  - 1<sup>st</sup> Year Surplus Strain = 84.17% of Premium
  - Profit Margin = 10.00%
    - P.V. Profits / P.V. Premium @ 6.75%
  - Statutory IRR = 10.23%

## Secondary Guarantee Rider Profit Results

- Initial Stochastic Model
  - Generated 100 scenarios.
- No investment restriction placed on policyowner
  - Assumed 100% Investment in S&P 500
    - High potential return / High volatility
- Reported results:
  - 31% of all cells go “in the money”
  - PV of Profits Statistics
    - Mean: \$ 3.4M
    - Std. Dev. :\$ 700k
    - Mean difference vs. baseline: \$500k

# Initial Stochastic Model

Graph – Range of Profitability on 100% S&P 500

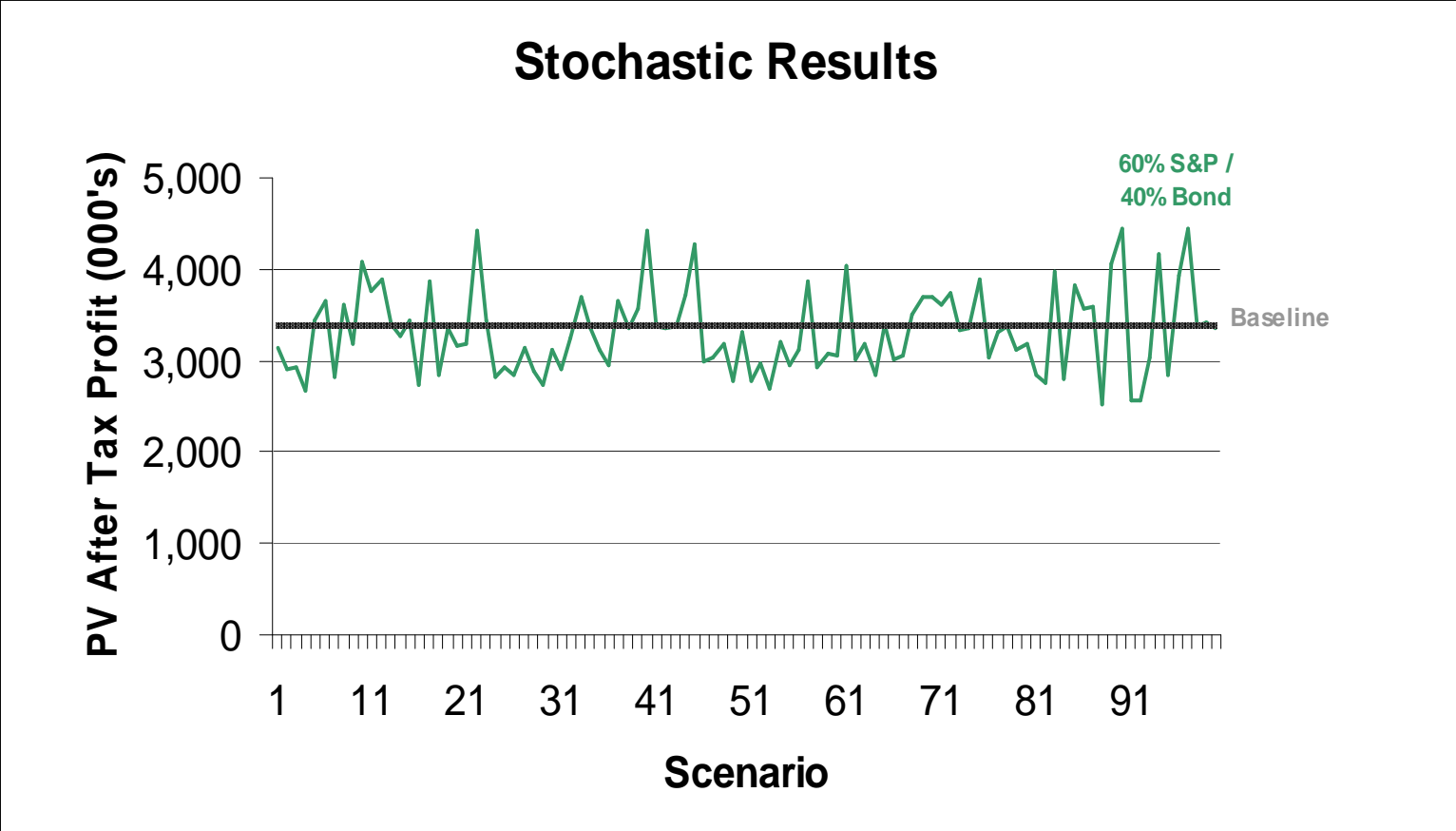


# Secondary Guarantee Rider Profit Results

- Second Stochastic Model
  - 60% Investment in S&P 500
  - 40% in Intermediate Term Bond Fund
  - Portfolio Rebalanced Monthly
- Reported results:
  - 8% of all cells go “in the money”
  - PV of Profits Statistics
    - Mean: \$ 3.3M
    - Std. Dev. :\$ 460k
    - Mean difference vs. baseline: \$385k

# Second Stochastic Model

Graph – Range of Profitability on 60/40 Scenarios



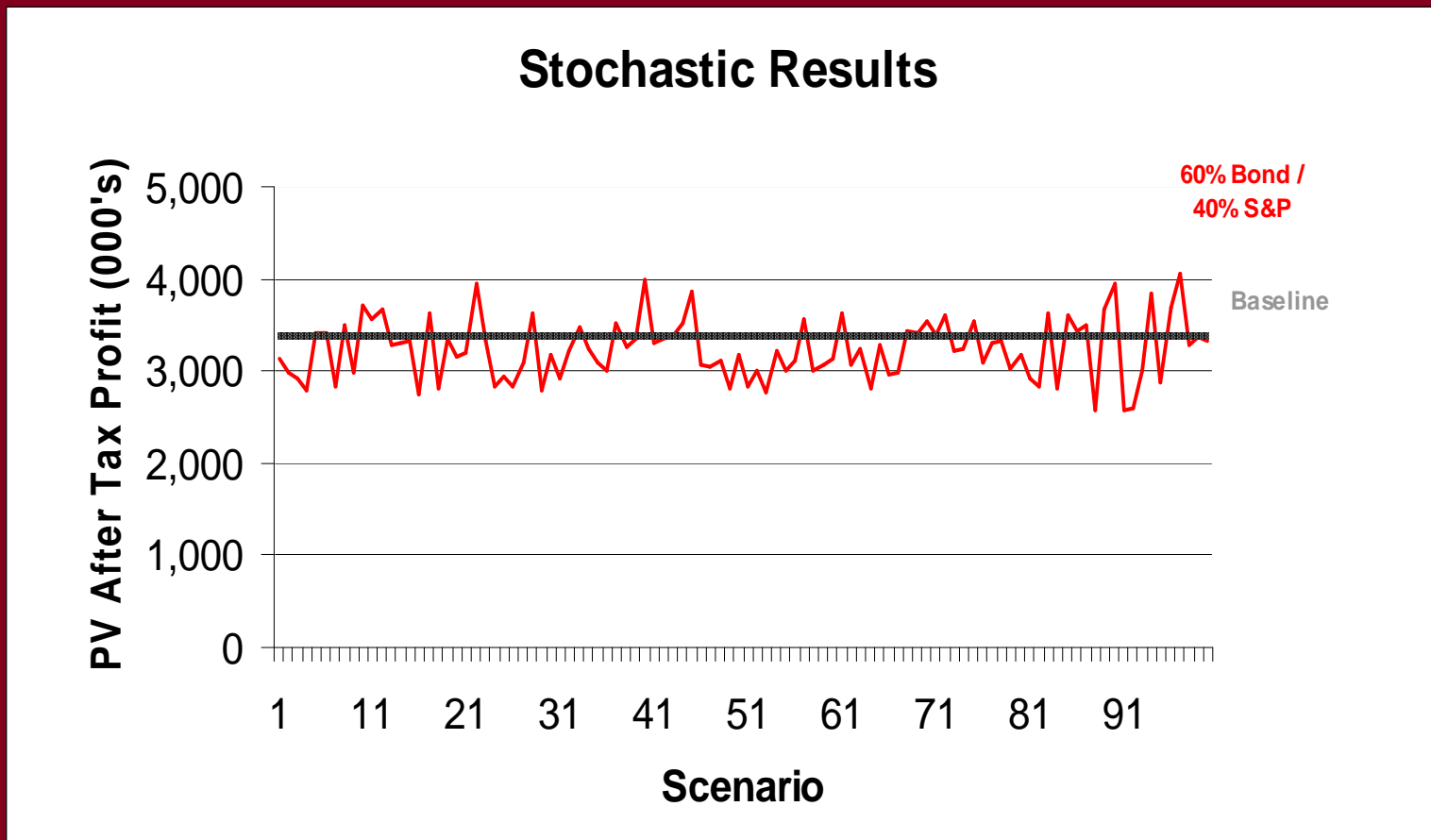


# Secondary Guarantee Rider Profit Results

- Third Stochastic Model
  - 40% Investment in S&P 500
  - 60% in Intermediate Term Bond Fund
  - Portfolio Rebalanced Monthly
- Reported results:
  - 2% of all cells go “in the money”
  - PV of Profits Statistics
    - Mean: \$ 3.2M
    - Std. Dev. :\$ 330k
    - Mean difference vs. baseline: \$300k

# Third Stochastic Model

Graph – Range of Profitability on 40/60 Scenarios



## VUL Case Study Summary

- Placing investment restrictions can allow a company to offer more competitively positioned secondary guarantees on VUL.
- While risk can be minimized, profits are impacted by A.G. XXXVII.
  - Much less than UL has been impacted by XXX & AXXX, but takes additional capital nonetheless.
- Reinsurance has not been factored in
  - Need to work with reinsurance companies that understand this risk is not the same as GMDB on VAs

## Closing Remarks

- Competitively priced guarantees are possible on VUL contracts.
  - Whether using the general account or an asset allocation model.
  - Individuals may be able to purchase competitive death benefit guarantee and invest excess funds all within one product.
  - Surplus impact of A.G. 37 is much less than XXX / AXXX.

# Reinsurance Issues

# Reinsurance of Universal Life With Secondary Guarantees

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# Reinsurance Issues

- Structure
- Market
- Future?

# Structure

- YRT
- Coinsurance
- Surplus Relief



# YRT

- Quota Share of Mortality Risk and Secondary Guarantee Risk
- Reinsurer agrees to reimburse ceding company for death benefits
- Reinsurer covers secondary guarantee risk

# YRT-Secondary Guarantee Risk

- If the policy goes “in the money”, the reinsurer:
  1. Waives reinsurance premium, or
  2. Reimburses ceding company COI rate

# YRT-Secondary Guarantee Risk

- Reinsurer must hold the difference between XXX reserve and CRVM reserve

# YRT Costs

## Three basic charges:

1. YRT rate for mortality
  - Discount to COI charges
  - Percentage of mortality table (e.g. 1975-80 Table)
2. Premium for actual secondary guarantee risk:  
Usually expressed as a percentage of 1 above.
3. Charge for holding reserves: Usually expressed as a basis point charge on reserves.

# Secondary Guarantee Reserves

- Usually backed by Letter of Credit
- Sometimes backed by a Reg. 114 Trust

# Coinsurance

- All policy benefits are coinsured
- Reinsurer participates in account values, surrender charges, secondary benefits, etc.
- Treaty must follow Model Reg.
- Much more complex than YRT structure

# Financial Reinsurance

- Even more complicated
- Financial Reinsurance players not interested in long term arrangements

# Current Reinsurance Market

- Very limited
- Only a few participants
- Little competition



# Why the Lack of Capacity?

- Reinsurers do not want interest rate risk
- Limited LOC capacity
- Reduced revenue per dollar of LOC used compared to term coinsurance

# Some Other Issues

- Reinsurance Premium Guarantees
- Extended Maturity
- Conversions
- Automatic Binding Limits

# Reinsurance Premium Guarantees

- LOC charges are usually locked for lifetime for in-force business.
- Typically provides 30 days notice for increase of LOC charges for new business.
- Reinsurer reserves the right to modify reinsurance premiums if:
  1. Ceding company changes COI charges
  2. Ceding company changes expense loads

# The Future?

- No new markets seen in the near future
- LOC capacity is dwindling

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