

U.S. GAAP & IFRS: Today and Tomorrow Sept. 13-14, 2010

New York

Universal Life and Deferred Annuities Under

GAAP

Mark Freedman



Agenda	
Overview	
Benefit reserves	
Deferred policy acquisition costs	
Assumptions	
Earnings patterns	
Practical issues	
SOP 03-1 and SFAS 133	
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SFAS 60 Presentation		
Premium	900	
+ Investment income	90	
- Death benefits	(25)	
 Surrender benefits 	(40)	
 Increase in reserves 	<u>(800)</u>	
= Net income	125	

Account value rollforward		
Account value prior year	1,000	
+ Premium	900	
- Loads	(20)	
 AV withdrawn at death 	(5)	
- AV withdrawn at surrender	(45)	
 Credited interest 	(50)	
 Cost of insurance charges 	<u>(80)</u>	
 Account value current year 	1,800	

SFAS 97 Presentation		
Investment income	90	
+ Loads	20	
+ Surrender charges	5	
+ Cost of insurance charges	80	
- DBs in excess of AV released	(20)	
- Credited interest	<u>(50)</u>	
= Net income	125	





















Voor	Interest Spread	Mortality Cain	Cross Brofit	Account Value
Tear	interest Spread	wortanty Gall	GIUSS FIUIIL	100.000
1	2,000	200	2,200	107,800
2	2,156	300	2,456	116,124
3	2,322	400	2,722	0
PV de	eferrable expense	e 3,000		
PV gr	oss profits	6,304 :	=2200v + 2456	$\delta v^2 + 2722 v^3$
Amor	tization rate	47.6%		

Exam Single	ple e premium	whole life with	th excess	interest	
Year	Deferrable <u>Expense</u>	Amortization	Interest	DAC	
1	3,000	(1,047)	240	2,193	
2	0	(1,168)	175	1,200	
3	0	(1,296)	96	0	
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Year	Gross Profit	Original DAC	Original EGP	DAC
1	2,200	2,327	2,200	2,193
2	3,534	1,046	2,456	1,200
3	2,722	0	2,722	0
PV de	eferred expense	3,000		3,000
PV E	GPs	7,228		6,304
Amor	tization rate	41.5%		47.6%

	Revised			
Year	<u>Gross Profit</u>	Revised DAC	Original EGP	Original DAC
1	2,200	2,327	2,200*	2,193*
2	3,534*	1,046*	2,456	1,200
*Rano	uted figures			
Кере				

Additional EGP Additional amortization from replacing estim profit Original DAC(2) - Revised DAC(2) = Additional amortization (2)	1,078 nated with actual gross 1,200
Additional amortization from replacing estim profit Original DAC(2) - Revised DAC(2) = Additional amortization (2)	ated with actual gross
Original DAC(2) - Revised DAC(2) = Additional amortization (2)	1,200
 Revised DAC(2) Additional amortization (2) 	(4.0.40)
= Additional amortization (2)	(1,046)
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Year	Gross Profit	Original DAC	Original EGP	DAC
1	2,200	2,430	2,200	2,193
2	3,534	1,324	2,456	1,200
3	3,884	0	2,722	0
PV de	ferred expense	3,000		3,000
PV EG	SPs	8,150		6,304
Amort	ization rate	36.8%		47.6%

<u>Year</u>	Original DAC	Example 1 <u>Revised DAC</u>	Example 2 <u>Revised DAC</u>	
1	2,193*	2,327	2,430	
2	1,200	1,046	1,324*	
*Repo	orted figures			

Unlocking Example 2: Net income impact in yea	r 2	
Additional EGP	1,078	
Additional amortization from replacing estimated with actual gross profits	154	
Additional amortization from revising year 3 EGP	(278)	
Total additional amortization	(124)	
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	<u>Year 1</u>	Year 3	
GAAP book profit	1,093	1,403	
+ Investment income on DAC	300	120	
 Interest credited on DAC 	(240)	(96)	
= Adjusted book profit	1,153	1,427	
Gross profit	2,200	2,722	
Adjusted book profit / gross profi	t 52.4%	52.4%	
1 - amortization rate	52.4%	52.4%	





















