

# NEWS RELEASE

June 1, 2009 Sony Life Insurance Co., Ltd.

# Disclosure of Market Consistent Embedded Value as of March 31, 2009

Tokyo, June 1, 2009 – Sony Life Insurance Co., Ltd. ("Sony Life"), a wholly-owned subsidiary of Sony Financial Holdings Inc., today disclosed its Market Consistent Embedded Value ("MCEV") as of March 31, 2009, as one of the indices used to evaluate the corporate value of Sony Life and the life insurance businesses of the Sony Financial Holdings Group, which is compliant with the European Insurance CFO Forum Market Consistent Embedded Value Principles<sup>1</sup> ("MCEV Principles").

Sony Life maintains its accounting records and prepares its financial statements in Japanese yen, in accordance with the Company Law of Japan and the Insurance Business Law of Japan and in conformity with generally accepted accounting principles and practices in Japan ("Japanese GAAP"). Sony Financial Holdings Inc.'s parent company, Sony Corporation, reports its financial statements in accordance with generally accepted accounting principles and practices. The figures stated below with respect to Sony Life's financial statements are based on Japanese GAAP.

## **Summary**

The MCEV of Sony Life as of March 31, 2009 is as follows.

The MCEV as of March 31, 2009, was down ¥415.6 billion compared with its level on March 31, 2008, primarily due to decreases in interest swap rates, the flattening of the term structure, increases in the implied volatilities of equity options and interest swaptions, and price declines on stocks and convertible bonds we held. We have been working to reduce the duration mismatch risk between assets and liabilities since the year ended March 31, 2008. Going forward, we will continue in these efforts. We also aim to increase our value of new business to achieve continuous growth in corporate value.

				(Billions of yen)
		As of March 31, 2009	As of March 31, 2008	Change
MCEV		400.9	816.5	(415.6)
	Adjusted net worth	195.4	248.5	(53.1)
	Value of existing business	205.4	568.0	(362.5)
New business value		15.4	48.2	(32.9)

\*New business value indicates the value of new business acquired during the year ended March 31, 2009.

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## 1. Introduction

## 1.1 About MCEV

The primary purpose of this press release is to provide information regarding the economic value of our life insurance business and movement analysis of its value.

Companies—primarily leading life insurance firms in Europe—have widely disclosed European Embedded Value ("EEV") since the CFO Forum formed by the Chief Financial Officers (CFO) of major insurance companies in Europe, published EEV Principles in May 2004. EEV Principles attempt to address criticisms to traditional embedded value (TEV) (such as the appropriate valuation of costs related to options and various guarantees and improving comparability with other firms) and facilitate the implementation of market consistent valuation methods, which led many leading insurance companies in Europe to disclose EEV based on market-consistent approaches.

However, EEV Principles allow various calculation methodologies, including MCEV. Many insurance companies in Europe disclose MCEV as part of their financial reports and use it as an internal management tool, so the CFO Forum published MCEV Principles in June 2008 in order to make EV information effective and appropriate for investors by streamlining MCEV disclosure standards for international use.

Here, in December 2008 the CFO Forum decided to conduct a review of the impact of turbulent market conditions on the MCEV Principles, as the MCEV Principles were designed during a period of relatively stable market conditions and their application could, in turbulent markets, lead to misleading results. Although the review results have not yet been published, the result of which may lead to changes to the published MCEV Principles or the issuance of guidance. While the CFO Forum remains committed to MCEV Principles, EV disclosure compliant with MCEV Principles is mandatory for life insurance companies participating to the CFO Forum in Europe starting in the fiscal year ending December 31, 2009<sup>2</sup>. Therefore, we believe disclosure compliant with MCEV Principles will spread, particularly in Europe.

In step with these developments, Sonly Life has disclosed MCEV as of March 31, 2008, in compliance with MCEV Principles.

## 1.2 Covered business

Our calculations include the business operated by Sony Life and its subsidiary and affiliate companies. It should be noted, however, that we have calculated the value of the subsidiary and affiliated companies by adding their book values on a Japanese GAAP basis to the calculation of adjusted net worth.

<sup>&</sup>lt;sup>2</sup> According to the press release announced by the CFO Forum on May 22, 2009, the commencement of mandatory MCEV reporting may be deferred until 2011. For more details, please see the website of the CFO Forum (<u>http://www.cfoforum.nl/</u>).

#### 1.3 Statement of directors

The Board of Directors of Sony Life confirms that the EV presented here has been produced following the methodology set out in the MCEV Principles. Areas of material noncompliance are stated in section 1.5.

## 1.4 Opinion of outside specialist

Sony Life requested Milliman, Inc., an external actuarial consulting firm with expert knowledge in the area of MCEV valuations, to review the methodology, assumptions and calculations and obtained opinion from Milliman, Inc. Please refer to Section 5 ("Opinion of Outside Specialist") for details.

## 1.5 Compliance with MCEV Principles

We have calculated our MCEV in accordance with the calculation methodologies and assumptions in the MCEV Principles. Points of notice regarding MCEV Principles compliance are as follows.

- The calculated value of MCEV is the value for Sony Life only, and not the consolidated value of our parent company, Sony Financial Holdings Inc.
- With respect to Sony Life's subsidiary, Sony Life Insurance (Philippines) Corporation and its equity method affiliate, AEGON Sony Life Planning Co., Ltd., we have not evaluated their life insurance business but reflected their book values in the calculation of adjusted net worth. Values of subsidiary and affiliated companies were not changed in sensitivity tests.
- Any calculated values of MCEV are not presented separately by segment of subsidiary and affiliated company.
- We have calculated adjusted net worth based on Japanese GAAP, not on International Financial Reporting Standards (IFRS).

## 1.6 Definition of MCEV

MCEV Principles define MCEV as follows.

MCEV represents the present value of current and future distributable earnings to shareholders generated from assets allocated to the covered business after sufficient allowance for the aggregate risks in the covered business. MCEV can be expressed as the EV evaluated in a method consistent with the calculation of prices of financial products traded in the financial markets.

MCEV consists of adjusted net worth and the value of existing business.

Adjusted net worth is the amount of assets allocated for the covered business as of the valuation date and calculated as the amount of its market value in excess of statutory policy reserve and other liabilities. Adjusted net worth can be split to required capital and free surplus.

The value of existing business consists of the present value of certainty-equivalent profit, time value of options and guarantees, frictional costs, and the cost of non-hedgeable risks.

• The present value of certainty equivalent profit is the present value of profit based on future cash flows

generated from the covered business.

- Time value of options and guarantees is the stochastic valuation of the time value of options and guarantees inherent in insurance contracts based on risk-neutral scenarios.
- Frictional costs are the present value of investment costs and taxes on assets backing the required capital at each point of time in the future.
- Cost of non-hedgeable risks means the present value of costs necessary to maintain capital related to non-hedgeable risks in the future. These four items are all on an after-tax basis.

Please refer to Section 4 for more detailed definitions of terms.

## 2. MCEV Results for Sony Life

#### 2.1 MCEV results

MCEV of Sony Life as of March 31, 2009 is shown in the table below.

The MCEV as of March 31, 2009, was down ¥415.6 billion compared with its level on March 31, 2008, primarily due to decreases in interest swap rates, the flattening of the term structure, increases in the implied volatilities of equity options and interest swaptions, and price declines on stocks and convertible bonds we held. We have been working to reduce the duration mismatch risk between assets and liabilities since the year ended March 31, 2008. Going forward, we will continue in these efforts. We also aim to increase our value of new business to achieve continuous growth in corporate value.

(Billions of yen)

				(Billions of Jell)
		As of March 31,	As of March 31,	Change
		2009	2008	
MCEV		400.9	816.5	(415.6)
	Adjusted net worth	195.4	248.5	(53.1)
	Value of existing business	205.4	568.0	(362.5)
New bus	siness value	15.4	48.2	(32.9)

#### 2.2 Adjusted net worth

Adjusted net worth is calculated as the market value of assets allocated for the covered business in excess of statutory policy reserve and other liabilities as of the valuation date. It is the total amount of the net assets line on the balance sheets, adding a reserve for price fluctuations, contingency reserves, reserve for possible loan losses, along with unrealized gains or losses on held-to-maturity securities and unrealized gains or losses on land and buildings, deducting unfunded pension liabilities and intangible fixed assets, and adjusting for the amount of tax effect equivalent to these seven items (see below).

•		(B	illions of yen)
	As of March 31,	As of March 31,	Change
	2009	2008	
Adjusted net worth	195.4	248.5	(53.1)
Total net assets	140.7	182.7	(41.9)
Reserve for price fluctuations	3.7	24.1	(20.4)
Contingency reserves	45.5	61.8	(16.3)
Reserve for possible loan losses	0.0	0.0	0.0
Unrealized gains or losses on			
held-to-maturity securities	26.7	—	26.7
Unrealized gains or losses on land and buildings	28.9	29.0	(0.1)
Unfunded pension liabilities	(6.8)	(3.5)	(3.2)
Intangible fixed assets	(12.2)	(8.1)	(4.1)
Tax effect equivalent of above seven items	(31.1)	(37.4)	6.3

				(Billions of Yen)
		As of March 31,	As of March 31,	Change
		2009	2008	
Adjusted	Adjusted net worth		248.5	(53.1)
	Free surplus	(173.8)	248.5	(422.3)
	Required capital	369.2	-	369.2

We set our required capital as the larger of the amount of capital required for a solvency margin ratio of 600% and the amount of capital to cover risks based on an internal model based on economic value. As of the valuation date, the amount of the former is 0 and all the required capital is inferred from the latter. Please refer to section 4.7 for the method used to calculate required capital.

Sony Life aims to manage risk on the basis of economic value. As this type of risk management has only recently begun, the free surplus as of the valuation date delivered a negative value. We will strive to clear up the negative free surplus by reducing the duration mismatch risk of assets and liabilities, reviewing product characteristics and adopting other measures.

#### 2.3 Value of existing business

The value of existing business is the present value of certainty-equivalent profit deducting the time value of options and guarantees, and frictional costs and the cost of non-hedgeable risks, broken down as follows.

				(Billions of yen)
		As of March 31,	As of March 31,	Change
		2009	2008	
Va	ue of existing business	205.4	568.0	(362.5)
	Present value of certainty-equivalent profit	673.1	810.4	(137.3)
	Time value of options and guarantees	(228.7)	(94.8)	(134.0)
	Frictional costs	(58.5)	(16.3)	(42.3)
	Cost of non-hedgeable risks	(180.5)	(131.5)	(49.0)

#### 2.4 New business value

Business included in the calculation of new business value is only that acquired during the year ended March 31, 2009, which is consistent with the financial information we have disclosed, and does not include the value of new business expected to be acquired in the future. The value of new business is the value as of March 31, 2009 and is calculated based on the same assumptions used for the value of existing business on the same date. As the value of new business includes profits and losses from the point of sale to the end of March 2009, actual investment gains and losses during the year ended March 31, 2009 are reflected. A breakdown of the value of new business is as follows.

				(Billions of yen)
		As of March 31,	As of March 31,	Change
		2009	2008	
Val	ue of new business	15.4	48.2	(32.9)
	Present value of certainty-equivalent profit	62.8	76.3	(13.5)
	Time value of options and guarantees	(28.1)	(13.2)	(14.8)
	Frictional costs	(1.7)	(0.7)	(1.0)
	Cost of non-hedgeable risks	(17.7)	(14.2)	(3.5)

#### 2.5 New business margin

The new business margin described below is the ratio of the value of new business to the present value of premium income. The present value of premium income is calculated applying the same assumptions as those for the calculation of new business value, and is based on the premium before the deduction of the reinsurance premium.

			(Billions of yen)
	As of March 31,	As of March 31,	Change
	2009	2008	
Value of new business	15.4	48.2	(32.9)
Present value of premium income	866.9	863.0	3.9
Value of new business / Present value of			
premium income	1.8%	5.6%	(3.8 points)

Relationships between the acquired annualized premiums from new policies and the present value of premium income from new business for the year ended March 31, 2009 are as follows.

			(Billions of yen)
	As of March 31,	As of March 31,	Change
	2009	2008	
Single premium from new business	35.3	40.3	(4.9)
Annualized premiums from level premium new business <sup>3</sup>	75.4	78.4	(3.0)
Average annualization multiplier <sup>4</sup>	11.03	10.49	0.53

<sup>&</sup>lt;sup>3</sup> Annualized premiums from level premium new business is calculated by multiplying the number of payments in a year by the amount of premiums received at a time. It should be noted that the definition of annualized premiums here is different from that used in disclosure such as financial results and annual reports.

<sup>&</sup>lt;sup>4</sup> The average annualization multiplier is calculated as (Present value of premium income – Single premium from new business) / Annualized premiums from level premium new business.

#### 2.6 Reconciliation analysis from MCEV at the end of the prior year

The table below shows the reconciliation analysis of MCEV as of March 31, 2009, from MCEV as of March 31, 2008, of which format is in line with the one prescribed by MCEV Principles.

			(Bil	lions of yen)
	Free surplus	Required capital	Value of existing business	MCEV
Opening MCEV (MCEV as of March 31, 2008)	248.5	_	568.0	816.5
Opening adjustment	3.0	_	—	3.0
Adjusted opening MCEV	251.5	_	568.0	819.5
New business value			15.4	15.4
Expected existing business contribution (risk-free rate)	2.3	0.1	16.6	19.0
Expected existing business contribution (in excess of risk free rate)	1.8	0.0	15.6	17.5
Transfers from value of existing business and required capital to free surplus	12.0	12.5	(24.5)	_
Experience variances	(18.9)	11.4	(2.4)	(9.9)
Assumption changes	(35.6)	35.6	(27.3)	(27.3)
Other operating variance	(6.1)	6.1	(5.8)	(5.8)
Operating MCEV earnings	(44.5)	65.6	(12.4)	8.7
Economic variances	(380.8)	303.6	(350.2)	(427.4)
Other non operating variance	_	_	—	_
Total MCEV earnings	(425.3)	369.2	(362.5)	(418.6)
Closing MCEV (MCEV as of March 31, 2009)	(173.8)	369.2	205.4	400.9

#### (1) Opening adjustments

These adjustments reflect changes in dividends paid to shareholders and capital increases. A decrease of \$7.0 billion due to dividends paid to shareholders was more than offset by a \$10.0 billion increase in capital.

## (2) New business value

This figure reflects increases resulting from the acquisition of new business during the year ended March 31, 2009. Please refer to section 2.4 for information concerning the calculation method.

## (3) Expected existing business contribution (risk-free rate)

This figure includes the release of the portion for the year ended March 31, 2009, of the time value of options and guarantees and allowance for non-hedgeable risks, in addition to the release of the expected existing business contributions at a risk-free rate from the opening MCEV (as of March 31, 2008).

(4) Expected existing business contribution (in excess of risk-free rate)

This figure reflects the profit expected in excess of the risk-free rate generated by holding assets such as ordinary

corporate bonds, convertible bonds, loans, stocks and real estate. The expected yield used to calculate the expected existing business contribution in excess of the risk-free rate for the year ended March 31, 2009, was 1.65%, which was developed by reflecting our view of the market environment and annual investment plans for the year against the asset balance at the end of the previous fiscal year.

#### (5) Transfer from value of existing business and required capital to free surplus

This figure indicates changes in the free surplus by transferring the profit for the year ended March 31, 2009, from the existing business value to the free surplus and from changes in the required capital. The transfer of profit, the first item, includes the transfer of expected profit that it was assumed would be realized during the year ended March 31, 2009, under the MCEV calculation as of March 31, 2008, and the transfer of profit for the year ended March 31, 2009, calculated under the new business value for the year ended March 31, 2009, which is added in (2) above.

The value of MCEV itself does not change as a result of this transfer as the transfer merely constitutes an internal shift among MCEV components.

#### (6) Experience variances

These variances show the impact on MCEV of the actual versus assumed differences in non-economic expected profit for the year ended March 31, 2009, under the MCEV calculation as of March 31, 2008, and of the differences between actual policies in force as of March 31, 2009, and those that were projected to be in force on March 31, 2008, using persistency assumptions. The primary causes of changes in unfunded pension liabilities and intangible fixed assets are reflected in adjusted net worth.

These variances reflect the impact of one-time expenses incurred during the year ended March 31, 2009. Please refer to section 3.3 (5) for information on one-time expenses.

#### (7) Assumption changes

This figure indicates the impact of changes in the assumptions, mainly on mortality and morbidity rates, lapse and surrender rates and operating expense rates, in the calculation of MCEV as of March 31, 2009. The figure also reflects the two changes described below, which resulted in a ¥27.3 billion of decrease in MCEV.

During the year ended March 31, 2009, although actual mortality figures were improved by reflecting recent experience, the value of existing business decreased due to the withdrawal of the application of dynamic surrender rates to interest-sensitive whole life insurance, as described below, and higher lapse and surrender rates as a result of reflecting recent experience. A decrease in the value of existing business means an increase in the present value of future liability cash flows. This change, in turn, inflates changes in the present value of liability cash flows if the interest rates are changed, resulting in an increase in required capital based on an internal model method.

• Changes in dynamic surrender rates

We have decided not to apply dynamic surrender rates for interest-sensitive whole life insurance for calculating MCEV as of March 31, 2009. Although we have not identified an explicit correlation between interest rates or account values to minimum guarantees and lapse and surrender rates, we have developed dynamic surrender rates for the calculation of MCEV as of March 31, 2008, by referring to experience with similar products and domestic and overseas trends of practice. However, if we were to apply dynamic surrender rates to this product in the same manner as for the calculation of MCEV as of March 31, 2008, MCEV as of March 31, 2009, would be higher than the case in which dynamic surrender rates were not applied. Therefore, we have decided not to apply dynamic surrender rates for this product. Going forward, we will strive to improve dynamic surrender rates for this product by carefully monitoring experiential data and referring to experience with similar products and trends of practice in Japan and other countries.

• Change in the method of calculating the interest dividend rate for semi-participating products As we revised the method of calculating interest dividend rates applied during and after April 2009, we have reflected the relevant changes in MCEV calculations.

#### (8) Other operating variance

This figure reflects the impact of model improvements and updates used in calculating MCEV.

#### (9) Operating MCEV earnings

This figure shows the aggregate amount of items (2) through (8).

#### (10) Economic variances

These variances show the impact of actual to assumed differences in economic assumptions, such as market interest rates and implied volatilities, that were reflected in the market environment when calculating MCEV as of March 31, 2008, on future values and the impact of the actual to assumed difference in expected asset investment income that were assumed would be realized during the year ended March 31, 2009, under MCEV as of March 31, 2008.

Major reasons for decreases in the value of existing business from the impact of the former item include decreases in interest swap rates and a flattening of the term structure, and increase in the implied volatilities of equity options and interest swaptions accounting for \$276.6 billion, an increase in the allowance for non-hedgeable risks and an increase in the frictional costs of such changes in the market environment, accounting for \$40.1 billion and \$33.4 billion, respectively.

Major causes of decreases in the adjusted net worth owing to the impact of the latter are declines in the prices of stocks and convertible bonds held.

#### (11) Other non operating variance

There are no differences based on other factors.

#### 2.7 Sensitivity analysis

The impact of changing the underlying assumptions of MCEV is as follows.

#### Sensitivities

(Billions of yen) Change in Assumption Change in Assumption MCEV Rate of Change Amount 400.9 Base No change 100bp decrease 107.3 (293.6)(73%) Interest rates 100bp increase 573.2 172.3 43% 10% decrease 385.1 (15.7)(4%) Stock / Real estate market 10% increase 416.8 15.9 4% value 398.8 Stock / Real estate implied 25% increase (2.1)(1%) 403.9 volatility 25% decrease 3.0 1% Interest swaption 25% increase 331.3 (69.5) (17%) Implied volatility 10% decrease 411.3 10.5 3% Maintenance expenses x 0.9 393.1 Lapse and surrender rates (7.7)(2%) Death protection products 9% 435.6 34.7 x 0.95 Mortality rates Third-sector and annuity 396.5 (4.4)(1%) products x 0.95 Morbidity rates x 0.95 428.6 27.7 7% Statutory required minimum 459.2 58.3 15% Required capital level

Changes in adjusted net worth within the amount of change in MCEV are shown in the table below. Of items not specified in this table, only the value of existing business has been changed while adjusted net worth remains the same.

Interest rates	100bp decrease	274.8
Interest rates	100bp increase	(242.5)
Stack / Deel estate mericat value	10% decrease	(14.0)
Stock / Real estate market value	10% increase	14.2
Stack / Declegatete implied veletility	25% increase	2.8
Stock / Real estate implied volatility	25% decrease	(2.8)

#### Sensitivity of new business value

				(Billions of yen)
Assumption	Change in Assumption	New Business Value	Change in Amount	Rate of Change
Base	No change	15.4	—	
Interest rates	100bp decrease	(24.6)	(39.9)	(260%)
Interest rates	100bp increase	40.5	25.1	164%
Stock / Real estate market value	10% decrease	15.3	(0.0)	(0%)
Stock / Real estate market value	10% increase	15.4	0.0	0%
Stock / Real estate implied	25% increase	14.6	(0.7)	(5%)
volatility	25% decrease	16.2	0.8	5%
Interest swaption Implied volatility	25% increase	7.1	(8.3)	(54%)
Maintenance expenses	10% decrease	16.5	1.2	8%
Lapse and surrender rates	x 0.9	16.0	0.6	4%
Martality rates	Death protection products x 0.95	18.0	2.6	17%
Mortality rates	Third sector and annuity products x 0.95	15.0	(0.3)	(2%)
Morbidity rates	x 0.95	18.3	2.9	19%
Required capital	Statutory required minimum level	17.0	1.6	11%

#### (1) Interest rates

This sensitivity represents the impact of an immediate parallel shift of the swap curve as of March 31, 2009. Adjusted net worth would change as the market value of bonds and other assets held were to change. At the same time, the value of existing business would also change as the discount rate and the investment return on stocks, real estate, and etc. were changed. Here, the sensitivity scenarios were made so that the parameters related to interest rate volatility were equal to those derived for the base case. Only the parameters related to the interest rate term structure were altered when scenarios were developed using the interest rate model. The floor in downward changes in interest rates was set at 0%.

(2) Stock and real estate market value

This sensitivity represents the impact of immediate changes in market values of stock and real estate as of March 31, 2009. Adjusted net worth would change as the market value of stock and real estate were to change. At the same time, the value of existing business would change as the amount of asset changed

(3) Implied volatility of stock and real estate

This sensitivity represents the impact of an increase in the implied volatilities of stock and real estate used in calculating the time value of options and guarantees. The value of convertible bonds would also change. If stock implied volatilities were changed, the value of convertible bonds would change and thus adjusted net worth would change. At the same time, the value of existing business would also change as the time value of options and guarantees was affected.

#### (4) Interest swaption implied volatility

This sensitivity represents the impact of an increase in the implied volatility of interest swaption used in calculating the time value of options and guarantees. The value of existing business would change as the time value of options and guarantees were changed.

#### (5) Maintenance expenses

This sensitivity represents the impact of an increase in maintenance expenses. It should be noted that maintenance expenses do not include sales commissions from the in-force policies payable to Sony Life's Lifeplanner sales employees in future periods.

#### (6) Lapse and surrender rates

This sensitivity represents the impact of a decrease in lapse and surrender rates. The result of this sensitivity for the existing business value has moved toward the opposite direction from that of the previous fiscal year and the value of the company increases as more policies would be surrendered. This is because the number of policies that would continue to be in negative spread status in the future has increased due to decline in interest rates and others.

#### (7) Mortality rates

This sensitivity represents the impact of a decrease in the mortality rates. We have shown the impact on death protection products and the impact on third-sector insurance and annuity products separately, as they would have different impacts. We have covered base policies and riders of which the principal benefits are accidental death, disability, cancer, medical and nursing benefits, and individual annuities with respect to the third-sector insurance and annuity product segment. No management actions were reflected.

#### (8) Morbidity rates

This sensitivity represents the impact of a decrease in the morbidity rates of sickness and others in third-sector products.

## (9) Required capital

This sensitivity represents the impact in the event that required capital was changed to the statutory minimum level, a solvency margin ratio of 200%.

#### (10)Other

The following points should be noted regarding sensitivity.

- Frictional costs and the cost of non-hedgeable risks do not change in the sensitivity tests, with the exception of frictional costs, which are changed in terms of (9) required capital.
- · Values of a subsidiary and an affiliated company are not changed.
- The impact of changing more than one assumption at a time is not congruent with the sum of impacts for each assumption.

## **3.** Assumptions

#### **3.1 Economic assumptions**

We have made economic assumptions in our calculation of MCEV as of March 31, 2009.

#### (1) Risk-free rate

We have used the interest swap rate of Japanese yen as of March 31, 2009 as a risk-free rate for the certainty equivalent projections. As there are no data available beyond 50 years, we assumed that forward rates in the  $51^{st}$  year and beyond were equal to those in the  $50^{th}$  year. We have used Bloomberg's interest swap rate as our data source.

Term	As of March 31, 2009	As of March 31, 2008
1 year	0.75%	0.92%
5 year	0.97%	1.03%
10 year	1.31%	1.45%
20 year	1.79%	2.04%
30 year	1.88%	2.26%
40 year	1.89%	2.34%
50 year	1.92%	2.41%

The spot yields of the swap rate for key terms are as follows:

#### (2) Interest-rate model

We have calibrated the interest rate model to the market as of March 31, 2009. We have estimated parameters for the interest rate model from the yield curve and the implied volatilities of interest swaptions with different terms. We have used 1,000 scenarios generated by Milliman, Inc. in calculating the time value of options and guarantees under the stochastic method, where interest rate is floored at 0%.

The implied volatilities of the interest swaption used in our estimation are as follows.

Term of swap	Term of option	Japanese	U.S. dollar	Euro	UK pound
(in years)	(in years)	1	0.5. dona	Luio	OK pound
(III years)	(III years)	yen			
1	1	38.4%	54.5%	34.5%	42.5%
5	1	42.2%	40.3%	27.6%	30.1%
5	5	29.7%	27.6%	17.5%	15.8%
5	7	25.1%	24.8%	16.0%	13.2%
5	10	22.0%	22.1%	14.5%	11.0%
10	1	35.4%	35.7%	27.0%	26.8%
10	5	25.2%	25.7%	17.5%	14.7%
10	7	22.3%	23.8%	15.9%	12.9%
10	10	20.0%	22.1%	15.3%	11.8%
15	1	31.3%	33.7%	25.4%	25.1%
15	5	23.0%	24.5%	17.7%	14.8%
15	7	21.3%	23.5%	16.7%	13.2%
15	10	20.2%	21.4%	16.6%	12.1%

As of March 31, 2009

Term of swap	Term of option	Japanese	U.S. dollar	Euro	UK pound
(in years)	(in years)	yen			
1	1	39.2%	49.1%	19.6%	24.3%
5	1	41.8%	35.7%	17.5%	16.5%
5	5	26.1%	20.3%	12.8%	12.2%
5	7	21.3%	17.6%	11.6%	11.5%
5	10	18.5%	15.1%	10.8%	10.9%
10	1	27.9%	28.3%	14.6%	13.9%
10	5	20.0%	18.7%	11.8%	11.2%
10	7	17.5%	16.7%	11.2%	10.7%
10	10	15.6%	14.6%	10.7%	10.4%
15	1	22.1%	24.7%	13.5%	12.8%
15	5	17.4%	16.7%	11.5%	10.5%
15	7	15.7%	15.1%	11.0%	10.3%
15	10	14.5%	12.9%	10.5%	10.3%

As of March 31, 2008

#### (3) Implied volatility of foreign exchange rates and equity

We have obtained spot implied volatilities from options with different terms. Implied volatilities are all those for at-the-money options. Bloomberg is the source of data for foreign exchange and averages of the implied volatilities provided by securities firms for the stock price index. We have assumed that forward implied volatilities in the 11<sup>th</sup> year and beyond are equal to those in the 10<sup>th</sup> year for both foreign exchange rates and the stock price index as these derivatives have low liquidities.

In the calculation of MCEV as of March 31, 2008, we used implied volatility of 5-year term for the 10-year term, as there was no credible data beyond 5-year term regarding the foreign exchange rate of UK pound and Japanese yen. However, in the calculation of MCEV as of March 31, 2009, we set forward implied volatility in the 6<sup>th</sup> year and beyond are equal to the one in the 5<sup>th</sup> year.

Implied volatilities used for the estimation are as follows:

	I	Foreign Exchang	e	Stocks			
Term	U.S. dollar/	Euro/	UK pound/	Japan	U.S.	Euro	UK
	Japanese yen	Japanese yen	Japanese yen	TOPIX	S&P	SX5E	FTSE
1	14.2%	20.6%	24.0%	34.0%	37.0%	36.4%	33.2%
5	11.5%	20.6%	23.3%	31.6%	34.8%	34.3%	33.1%
10	13.3%	22.0%	_	31.5%	34.7%	34.1%	33.9%

As of March 31, 2009

#### As of March 31, 2008

	F	oreign Exchange	e	Stocks			
Term	U.S. dollar/	Euro/	UK pound/	Japan	U.S.A.	EURO	U.K.
	Japanese yen	Japanese yen	Japanese yen	TOPIX	S&P	SX5E	FTSE
1	12.1%	12.1%	13.7%	22.9%	24.1%	23.4%	23.7%
5	10.7%	11.4%	12.9%	21.7%	25.9%	26.3%	25.8%
10	13.1%	13.0%	12.9%	22.6%	28.0%	28.0%	27.6%

## (4) Correlation factor

We have calculated correlation factors from the monthly return of each index for a period of five years from April 2004 and to the end of March 2009 as there is no market-consistent data for correlation factors.

As of March 31, 2009

	Japanese	U.S.	Euro	UK	U.S.	Euro /	UK	TOPIX	S&P	SX5E	FTSE
	yen	dollar	Interest	pound	dollar /	Japanese	pound /				
	Interest	Interest	rate 1Y	Interest	Japanese	yen	Japanese				
	rate 1Y	rate 1Y		rate 1Y	yen		yen				
Japanese yen Interest	1.00	0.42	0.44	0.39	0.13	0.19	0.31	0.23	0.20	0.21	0.14
rate 1Y											
U.S. dollar Interest rate 1Y	0.42	1.00	0.68	0.60	0.59	0.32	0.60	0.44	0.35	0.48	0.35
Euro Interest rate 1Y	0.44	0.68	1.00	0.86	0.48	0.50	0.64	0.47	0.53	0.51	0.42
UK pound Interest rate 1Y	0.39	0.60	0.86	1.00	0.47	0.48	0.74	0.38	0.40	0.33	0.23
U.S. dollar / Japanese yen	0.13	0.59	0.48	0.47	1.00	0.56	0.72	0.50	0.27	0.35	0.33
Euro / Japanese yen	0.19	0.32	0.50	0.48	0.56	1.00	0.75	0.66	0.61	0.50	0.52
UK pound / Japanese yen	0.31	0.60	0.64	0.74	0.72	0.75	1.00	0.56	0.46	0.41	0.33
TOPIX	0.23	0.44	0.47	0.38	0.50	0.66	0.56	1.00	0.74	0.79	0.79
S&P	0.20	0.35	0.53	0.40	0.27	0.61	0.46	0.74	1.00	0.91	0.83
SX5E	0.21	0.48	0.51	0.33	0.35	0.50	0.41	0.79	0.91	1.00	0.90
FTSE	0.14	0.35	0.42	0.23	0.33	0.52	0.33	0.79	0.83	0.90	1.00

	Japanese	U.S.	Euro	UK	U.S.	Euro /	UK	TOPIX	SPX	SX5E	FTSE
	yen	dollar	Interest	pound	dollar /	Japanese	pound /				
	Interest	Interest	rate 1Y	Interest	Japanese	yen	Japanese				
	rate 1Y	rate 1Y		rate 1Y	yen		yen				
Japanese	1.00	0.21	0.20	0.10	(0.05)	(0.07)	(0.07)	(0.00)	(0.09)	0.00	(0.02)
yen											
Interest											
rate 1Y											
U.S.	0.21	1.00	0.60	0.41	0.52	0.28	0.40	0.39	0.38	0.57	0.54
dollar											
Interest											
rate 1Y											
Euro	0.20	0.60	1.00	0.54	0.37	0.18	0.13	0.08	0.24	0.39	0.31
Interest											
rate 1Y											
UK	0.10	0.41	0.54	1.00	0.12	(0.07)	0.23	0.15	0.19	0.21	0.11
pound											
Interest											
rate 1Y											
U.S.	(0.05)	0.52	0.37	0.12	1.00	0.53	0.60	0.31	0.24	0.47	0.47
dollar /											
Japanese											
yen											
Euro /	(0.07)	0.28	0.18	(0.07)	0.53	1.00	0.77	0.12	0.42	0.32	0.46
Japanese											
yen											
UK	(0.07)	0.40	0.13	0.23	0.60	0.77	1.00	0.23	0.38	0.35	0.37
pound /											
Japanese											
yen											
TOPIX	(0.00)	0.39	0.08	0.15	0.31	0.12	0.23	1.00	0.42	0.48	0.53
SPX	(0.09)	0.38	0.24	0.19	0.24	0.42	0.38	0.42	1.00	0.82	0.76
SX5E	0.00	0.57	0.39	0.21	0.47	0.32	0.35	0.48	0.82	1.00	0.87
FTSE	(0.02)	0.54	0.31	0.11	0.47	0.46	0.37	0.53	0.76	0.87	1.00

#### (5) Foreign exchange

Assets denominated in foreign currencies are converted to Japanese yen using the TTM (telegraphic transfer middle exchange rate) as of March 31, 2009.

	As of	As of
	March 31, 2009	March, 31 2008
U.S. dollar / Yen	98.23	100.19
Euro / Yen	129.84	158.19
UK pound / Yen	140.45	200.11

#### 3.2 Future asset allocation

#### (1) Asset allocation in the general account

Segment accounting is conducted for individual life insurance and individual annuity with the classifications of non-participating product segment, semi-participating product segment and interest rate-sensitive whole life insurance segment. Asset allocation in the general account under the stochastic method was determined based on the actual asset allocation in each segment as of March 31, 2009 with an assumption of no changes in asset allocation thereafter.

#### (2) Asset allocation in the separate account

There are eight funds established in the separate account. The asset allocation for each fund at the beginning of the projection is determined based on the actual fund allocation as of March 31, 2009 and no rebalancing adjustments are applied to maintain the initial fund allocation thereafter.

#### 3.3 Other assumptions

Assumptions including mortality and morbidity rates, lapse and surrender rates, and operating expense rates, were developed based on product best estimates as of March 31, 2009. Best-estimate assumptions are developed to reflect past and current experiences as well as expected experiences in the future. Expected future changes are not reflected in the best estimate assumptions, as expected future changes in assumptions should be reflected only when they are supported by sufficient reasons. Assumptions were developed as follows.

#### (1) Mortality and morbidity rates

Developed based on experiences over the three most recent years.

#### (2) Lapse and surrender rates

Lapse and surrender rates for the base case were developed based on experiences over the three most recent years. We have also developed dynamic assumptions in accordance with the level of interest rate or investment performance. The dynamic assumptions are made for the following products:

- Variable life insurance
- · Semi-participating products
- · Non-participating whole life insurance
- Non-participating endowment insurance

We have decided not to apply dynamic surrender rates for interest-sensitive whole life insurance for the

calculation of MCEV as of March 31, 2009. Although we have not identified explicit correlations between interest rates or account values to the amount of minimum guarantee and the lapse and surrender rates, we have developed dynamic surrender rates for calculating MCEV as of March 31, 2008, by referring to the experience with similar products and domestic and overseas trends of practice. However, if we were to apply dynamic surrender rates to this product in the same manner as for the calculation of MCEV as of March 31, 2008, MCEV as of March 31, 2009 would be higher than would be the case without applying the dynamic surrender rates. Therefore, we have decided not to apply dynamic surrender rates for this product. Going forward, we will strive to improve dynamic surrender rates for this product by carefully monitoring experiential data and referring to experience with similar products and trends of practice in Japan and other countries.

#### (3) Flexible premiums

There are no flexible premium products and thus no assumptions were developed.

#### (4) Renewal rates

Because there is very little renewable business and it does not have a significant impact on results, policy renewal was reflected in a simplified manner.

#### (5) Operating expense rates

We have developed unit costs of the expenses incurred for maintenance and administration of policies and payments of claims based on the actual operating expenses in the most recent year. As subsidiary and affiliated company are evaluated on book values, we have not reflected expenses incurred at Sony Life regarding management of the relevant subsidiary and affiliated company to the unit costs. Within actual operating expenses, exceptional one-time expenses incurred during the year ended March 31, 2009, and therefore excluded from the unit cost, as well as expenses regarding a subsidiary and affiliated company that were not reflected in unit costs accounted for 1% of total operating expenses, comprised primarily of expenses for the Beijing representative office.

Unit costs include management administration charges payable to the parent company, Sony Financial Holdings Inc. The look-through effect has not been considered with regards to Sony Financial Holdings Inc.

#### (6) Tax rate

Based on the most recent effective tax rate.

#### (7) Inflation

Set inflation to 0% reflecting the break-even inflation rate derived from 10-year Consumer Price Index (CPI)-indexed Japanese government bonds.

## 4. Calculation method of MCEV

#### 4.1 Covered business

The covered business is the business operated by Sony Life, its subsidiary and its affiliate company.

#### 4.2 Treatment of subsidiary and affiliate company

With respect to subsidiary, Sony Life Insurance (Philippines) Corporation, and its equity method affiliate, AEGON Sony Life Planning Co., Ltd., book values reflect the calculation of adjusted net worth based on Japanese GAAP. Amounts reflecting adjusted net worth are ¥3.0 billion and ¥3.0 billion, respectively. These are the only values reflecting the results of these companies; all other results solely reflect Sony Life itself (on a non-consolidated basis).

#### 4.3 Treatment of reinsurance

We have designated reinsurance premiums as expenses and reinsurance benefits as income in our projections, as we consider the mortality risks as part of the death protection insurance products.

#### 4.4 Treatment of semi-participating policies

We have calculated dividends in accordance with the level of future investment returns, based on the same method used to determine the dividend rate for the accounting closure of March 31, 2009, reflecting the present value of certainty-equivalent profit and the time value of options and guarantees.

#### **4.5 MCEV**

MCEV is defined as the present value of distributable earnings to shareholders generated from assets allocated to the covered business after sufficient allowance for the aggregate risks in the covered business and consists of adjusted net worth and the value of existing business.

#### 4.6 Adjusted net worth

Adjusted net worth is calculated as the market value of assets allocated for the covered business in excess of statutory policy reserves and other liabilities as of the valuation date. Specifically, it equals to the total amount of the net assets section on the balance sheets, adding reserve for price fluctuations, contingency reserves, reserve for possible loan losses, unrealized gains or losses on held-to-maturity securities, and unrealized gains or losses on land and buildings, deducting unfunded pension liabilities and intangible fixed assets, and adjusting for the amount of tax effect equivalent of these seven items. Adjusted net worth can be split into required capital and free surplus.

#### 4.7 Required capital

MCEV Principles define required capital as the amount of assets that should be held in addition to the assets corresponding to the statutory liability to perform the in-force policy obligations, which is restricted from distributing to shareholders in nature. The level of required capital should be the larger of the solvency capital to meet the statutory required minimum level and the capital required to meet the internal objectives in terms of marketing purpose or risk management purpose, or to achieve the company's targeted credit rating.

We set our required capital as the larger of the amount of capital required for a solvency margin ratio of 600% and the amount of capital to cover risks based on the internal model.

We have defined the amount of capital to cover risks based on the internal model as the total amount of technical provision and solvency risk capital stipulated by QIS4 of the EU Solvency II held in excess of statutory policy reserves (excluding contingency reserves). It should be noted that we have used a different cost of capital rate in calculating risk margin included in the technical provision than the one stipulated by the QIS4. Please refer to section 4.14 for the specific cost of capital rate.

Although the Japanese statutory required minimum levels is a solvency margin ratio of 200%, we set our level for the targeted solvency margin ratio to 600% in calculating MCEV as of March 31, 2009, as there are arguments that a level of 200% would not necessarily be sufficient to present the soundness of an insurance company. As a result, this criterion is currently under revision to improve the credibility of the solvency margin ratio, and Sony Life has used the targeted minimum solvency margin ratio of 600% instead of 200% as a basis to calculate the cost of capital from the past. In case of the solvency margin ratio will be revised and that the risk calibration will become stricter in the future, therefore we plan to change the targeted solvency capital level as appropriate.

We will also revise the internal model itself as appropriate, taking into account the domestic and overseas situations, including movements of international accounting standards, valuation methods of insurance liability on an economic value basis and solvency margin standard trends, as well as the analysis of our internal mortality and morbidity rates data.

#### 4.8 Free surplus

Free surplus is the amount of adjusted net worth other than that for required capital.

#### 4.9 Value of existing business

The value of existing business is calculated as the present value of certainty-equivalent profit deducting time value of options and guarantees, frictional costs and cost of non-hedgeable risks. New business value is calculated using the same method.

#### 4.10 Present value of certainty-equivalent profit

Present value of certainty equivalent profit is the present value of profit based on the future cash flows generated from the covered business. Investment return on all assets and the discount rate are set to the risk-free rate. The present value of certainty equivalent profit reflects the intrinsic value of options and guarantees.

#### 4.11 Time value of options and guarantees

We have calculated the time value of options and guarantees using the stochastic method with risk-neutral scenarios. The time value of options and guarantees is calculated as the difference between the present value of certainty-equivalent profit and the present value of stochastic future profits.

Time value of options and guarantees considers the following items:

- Minimum guarantees of variable life insurance
   The excess of account value over the scheduled policy reserves is attributed to policyholders. However, the cost of guaranteed minimum death benefits for variable life insurance incurred when account value is less than the scheduled policy reserve is attributed to shareholders.
- Minimum interest-rate guarantee for interest rate-sensitive whole life insurance When the investment return exceeds the assumed interest rate, the outperforming portion is credited to policyholder account value. However, when the investment return underperforms the assumed interest rate, the cost for the difference is attributed to shareholders, as the assumed interest rate is guaranteed.
- Interest dividend for semi-participating products When the investment return exceeds the assumed interest rate, the outperforming portion is credited to the fund for policyholder dividends and paid to policyholders every five years as interest dividends. Accordingly, any of such interest gains would not be attributed to shareholders, while interest losses would be attributed to shareholders.
- Surrender options

Policyholders have various options in insurance contracts. Reflected among them are the cost of policyholders' exercising the right of surrender in the event of increased interest rates.

We have decided not to apply dynamic surrender rates for interest-sensitive whole life insurance for the calculation of MCEV as of March 31, 2009. Although we have not identified explicit correlations between interest rates or account values to the amount of minimum guarantee and the lapse and surrender rates, we have developed dynamic surrender rates for calculating MCEV as of March 31, 2008. by referring to the experience with similar products and domestic and overseas trends of practice. However, if we were to apply dynamic surrender rates to this product in the same manner as for the calculation of MCEV as of March 31, 2008, MCEV as of March 31, 2009 would be higher than would be the case without applying the dynamic surrender rates. Therefore, we have decided not to apply dynamic surrender rates for this product. Going forward, we will strive to improve dynamic surrender rates for this product by carefully monitoring experiential data and referring to experience with similar products and trends of practice in Japan and other countries.

#### 4.12 Frictional costs

We have calculated frictional costs as the present value of investment costs and taxes on assets backing the required capital at each point of time in the future.

#### 4.13 Cost of non-hedgeable risks

As risks<sup>5</sup> regarding the asymmetric nature of cash flows not reflected in the present value of certainty-equivalent profit are fully reflected in the time value of options and guarantees, we have reflected an allowance for the uncertainty of non-economic assumptions and the portion of economic assumptions considered non-hedgeable with respect to the cost of non-hedgeable risks.

Specifically, we have assumed a risk margin based on the method prescribed in QIS4 of the EU Solvency II framework as the cost of non-hedgeable risks and calculated it with the cost of capital approach. It should be noted that the following points are different from the method prescribed in QIS4:

- With respect to non-hedgeable risk, the uncertainty of the risk-free rates beyond the 50<sup>th</sup> year has been considered as an interest risk, in addition to life insurance underwriting risks and operational risks.
- Counterparty default risk has not been reflected in the non-hedgeable risks as its impact is limited.
- We have used risk amounts quantified after taking into consideration the risk mitigation effect through policyholder dividends without any adjustments.
- We have used the cost of capital rate described in section 4.14.

#### 4.14 Cost of capital rate

QIS4 of the EU Solvency II has set a cost of capital rate at 6%, which is used for the cost of capital calculation. On the other hand, the CRO (Chief Risk Officer) Forum comprised of CROs from leading insurance companies in Europe, proposed that 2.5% to 4.5% would be the appropriate level based on several trial calculations. Following the philosophy of the CRO Forum's approach, we have decided to use 2.5% for the cost of capital rate consistent with the MCEV framework considering Japanese long-term stock risk premiums, the beta of Sony Financial Holdings Inc. and the anticipated impact of the equity risk exposure of Sony Life on the beta of Sony Financial Holdings Inc., which is a hedgeable risk. However, we may revise the cost of capital rate in the future, as an industry development standard has not yet been established.

<sup>&</sup>lt;sup>5</sup> Please refer to "Asymmetric risk" in the Section 6. ("Glossary") for the risks regarding the asymmetric nature of the cash flows.

## **5.** Opinion of Outside Specialist

Sony Life requested Milliman, Inc., an external actuarial consulting firm with expert knowledge in the area of MCEV valuations to review the methodology, assumptions and calculations. The opinion obtained from Milliman, Inc. is as follows.

Milliman Inc. ("Milliman") has been engaged to review the methodology, assumptions and calculations used by Sony Life Insurance Co., Ltd.("Sony Life") to determine the Market Consistent Embedded Value ("MCEV") as of March 31, 2009. Specifically, the scope of our review included the embedded value as of 31 March 2009, the sensitivities, the new business value, and the movement analysis from the MCEV as of 31 March 2008.

The board of directors made a statement in its News Release Form dated June 1, 2009 that the methodology, assumptions, and calculations have been made in accordance with the MCEV Principles $\mathbb{O}^6$ , with the following exceptions:

- The calculated value of MCEV here is not the value of Sony Life's parent company, Sony Financial Holdings Inc., on consolidated basis but the calculated value for Sony Life only.
- With respect to Sony Life's subsidiary, Sony Life Insurance (Philippines) Corporation, and its equity method affiliate, AEGON Sony Life Planning Co., Ltd., Sony Life has not evaluated their life insurance business but reflected their book values to the calculation of adjusted net worth. Values of subsidiaries and affiliated companies are not changed in sensitivity tests.
- Any calculated values of MCEV are not presented separately by the segment of subsidiaries and affiliated companies.
- Sony Life has calculated adjusted net worth based on generally accepted accounting principles and practices in Japan and not based on the International Financial Reporting Standards (IFRS).

Milliman has concluded that the methodology and assumptions used comply with the MCEV Principles except for the points described in the above paragraph. In particular:

- The non-economic assumptions have been set in accordance with regard to past, current and expected future experience,
- The economic assumptions used in the calculations are internally consistent and consistent with observable market data as per the valuation date;
- The methodology makes allowance for the aggregate risks in the covered business through Sony Life's market consistent embedded value methodology, which includes
  - a stochastic allowance for the cost of financial options and guarantees
  - a deduction for the cost of non-hedgeable risks
  - a deduction for the frictional costs on the required capital
- for participating insurance contracts, the assumed policyholders' dividend rates, allocation of dividends between policyholders and shareholders, and other management actions, are consistent with the assumptions and scenarios used in the projections and where applicable local market practice.

<sup>&</sup>lt;sup>6</sup> European Insurance CFO Forum Market Consistent Embedded Value Principles © (Copyright © Stichting CFO Forum Foundation 2008)

Milliman reviewed the MCEV methodology, assumptions, calculations and analysis prepared by Sony Life. During its review, Milliman identified and discussed various MCEV calculation and definition issues with Sony Life staff. Based upon those discussions and follow-up actions, Milliman is not aware of any issues that would materially impact the disclosed market consistent embedded values, new business values, sensitivities, or movement analysis from the prior period. In arriving at this conclusion, Milliman has relied on data and information provided by Sony Life.

The calculation of MCEV is based on numerous assumptions with respect to economic conditions, operating conditions, taxes and other matters, many of which are beyond the control of Sony Life. Although the methodology and assumptions used comply with the MCEV Principles, deviation from projection assumptions to actual experiences in the future are to be expected. Such deviation may materially impact the value calculated.

This opinion is made solely to Sony Life in accordance with the engagement letter between Sony Life and Milliman. Milliman does not accept or assume any responsibility, duty of care or liability to anyone else than Sony Life for or in connection with its review work, the opinion Milliman has formed or for any statements sets forth in this opinion, to the fullest extent permitted by applicable law.

## 6. Glossary

Terr	n	Definition
A	Appraisal value	A corporate value based on projected cash flows receivable for shareholders from existing business and future new business. It is defined as the current MCEV plus new business value acquired in the future.
	Asymmetric risk	The risk where symmetric upward and downward changes on assumptions do not result in symmetric changes in cash flow. Such risk includes minimum guarantee of variable life insurance and policyholder dividend payment. These risks are evaluated with a stochastic method and presented as time value of options and guarantees.
В	Best estimate assumption	The assumption that is most expected to occur in the future.
С	Calibration Cost of capital approach Cost of non-hedgeable risk	To set various stochastic model parameters in a market consistent manner.One of the approaches to calculate risk margin. The cost of risk is determined by taking the present value of the cost to hold capital required in the future periods.The present value of the cost to hold required capital to cover future non-hedgeable risks. As risks regarding the asymmetric nature of cash flows not reflected in the present value of certainty-equivalent profit are fully reflected to the time value of options and guarantees, We have reflected allowance for uncertainty of non economic assumptions and the portion of economic assumptions considered non-hedgeable of economic assumptions with respect to the cost of non-hedgeable risks in this cost.
F	Free surplus	The portion of adjusted net worth other than the required capital.
	Frictional costs	The present value of investment costs and taxes on assets backing the required capital at each point of time in the future.
Ι	Implied volatility	The expected rate of future variability embedded in current option prices, and represents the expected value of the market against the price fluctuation.
L	Look through	To measure the impact of an action on an entire business group, rather than only on a particular part of the group.
N	Non-financial risk Non-hedgeable non-financial risk	Examples are mortality risk, longevity risk, disability risk, operating expense risk, surrender risk and operational risk. A non-financial risk such that deep and liquid capital markets do not exist to hedge such risk.
	Non-hedgeable risk	Non-hedgeable risk is composed of non-hedgeable financial risk and non-hedgeable non-financial risk.
0	Options and guarantees	<ul> <li>The following are some features of options and guarantees:</li> <li>Policy cash flow would be changed by exercising options granted to the policyholder, which may or may not be exercisable at the discretion of the policyholder. An example of such features is the exercise of surrender option.</li> <li>It includes guarantee of benefits or policyholder values. An example is a minimum death benefit guarantee for variable life insurance.</li> </ul>

Terr	n	Definition					
Р	Present value of certainty-equivalent profit	Present value of certainty equivalent profit is the present value of profit based on the future cash flows generated from the covered business.					
Q	QIS4	Quantitative Impact Study. Conducted prior to implementation of the EU Solvency II. The 4 <sup>th</sup> study was conducted in May 2008 and is referred as QIS4.					
R Required capital		MCEV Principles define required capital as the capital necessary to hold in excess of statutory policy reserve (excluding contingency reserve), and the larger of the solvency capital to meet the statutory required minimum level and the capital necessary to meet the internal objectives or to achieve the company's targeted credit rating. Required capital of Sony Life is set as the larger of the amount of capital corresponding to the solvency margin ratio of 600% and the amount of capital to					
		cover risks based on the internal model.					
	Risk-free rate	The reference rate defined in MCEV Principles. MCEV Principles states that it should be the swap rate to the currency of the cash flows.					
	Risk margin	The cost to hold capital to cover non-hedgeable risks reflected in evaluating the insurance liability on an economic value basis.					
	Risk neutral	A pseudo probability derived so that the present value of future expected values					
	probability	under multiple scenarios discounted with current risk-free rates is equal to the current value.					
	Risk neutral scenario	An interest rate scenario generated under risk-neutral probabilities.					
S	Solvency II	A new solvency regulation base on economic value to be applied uniformly within the EU that the European Commission is preparing to implement from 2012.					
Т	Technical provision	The value of liability on an economic value basis, which equals to the present value of best estimate cash flows plus Risk Margin.					
	Time value and intrinsic value	An option value that has two elements, time value and intrinsic value. Intrinsic value is the option value under certainty equivalent conditions. Time value is the value of options other than intrinsic value, which is calculated as the difference between the present value of certainty-equivalent profit and the present value of stochastic future profit.					