

Consultation with stakeholders

The PPF has encouraged engagement with the industry

- Consultations since 2008
- Steering Group set up in Autumn 2009
 - Senior industry group
 - Simplicity, predictability, equity, promotion of good behaviour
- Technical Reference Group
 - Technical experts to support Steering Group
 - Practical issues of formula design

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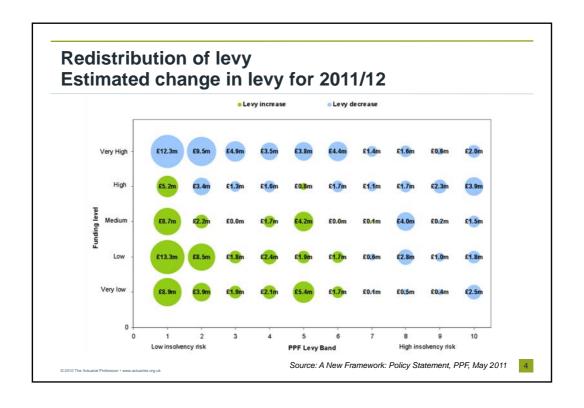
The new levy framework from 2012/13

Policy statement

- "Bottom-up"... with constraints
- Levy parameters fixed for three years... except in extremes
- Smoothing of assets and liabilities over five years
- Underfunding will reflect investment risk
- Number of insolvency bands reduced to 10

Consultation on 2012/13 levy Determination open until 2 November 2011

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How will investment stress tests be incorporated?

Two approaches

| | Standard | Bespoke |
|-----------------------|----------------------------|--|
| Who? | All schemes | Those with over £1.5bn of s179 liabilitiesBy choice |
| Asset stress | Calculated by PPF | Calculated by Scheme |
| s179 liability stress | Calculated by PPF | Calculated by PPF |
| Data on Exchange | No additional requirements | Submit stressed and unstressed asset values |

Exchange "help file" has been updated to help schemes classify assets

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How are the stress tests calculated?

Overview of Redington methodology

- Risk factor approach based on data available on Exchange
- Using historic data from 1 April 2006 to 31 March 2011
- · Each scheme modelled individually
- Stresses calculated in order to replicate an aggregate stress that is equivalent to 1x volatility of the aggregate funding level

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The risk factor stress tests

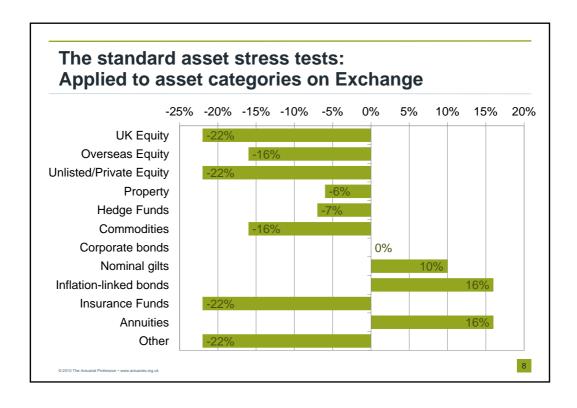
Risk factors restricted to data available on Exchange

| Risk factor | Unit of stress | Risk factor stress |
|-----------------|----------------|--------------------|
| UK Equity | % | -22% |
| Overseas Equity | % | -16% |
| Property | % | -6% |
| Commodities | % | -16% |
| Hedge Funds | % | -7% |
| Credit spread | basis points | 49 |
| Interest rates | basis points | -61 |
| Inflation | basis points | 34 |

s179 liability assumptions stressed by relevant interest rate and/or inflation stress

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The standard asset stress tests: Considerations and feedback

- Applicable without additional input from schemes
- Limitations of Exchange data
- Choice of benchmarks
- Diversification full correlation matrix approach
- Currency hedging
- The effective "real rate" stress
- Treatment of "insurance funds"
- Treatment of annuities
- "Other" category

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The bespoke asset stress tests

Two stages

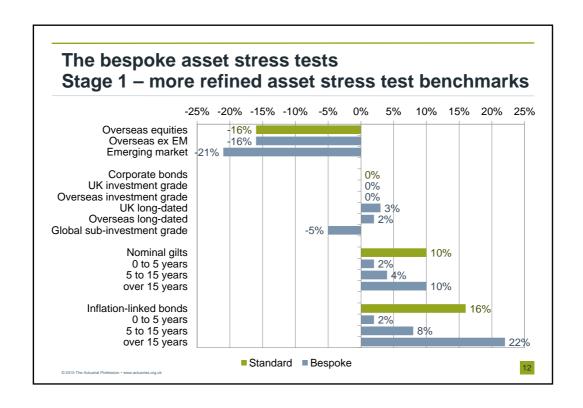
- 1. More refined asset stress test benchmarks
- 2. Risk factor stress tests to be applied to derivative contracts

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The bespoke asset stress tests Stage 1 – more refined asset stress test benchmarks

| Asset class | Standard | Bespoke |
|----------------------------|------------------------|---|
| Equities | Overseas | Overseas (ex Emerging markets)Emerging markets |
| Corporate bonds | UK investment grade | UK investment grade Overseas investment grade UK long-dated investment grade Overseas long-dated investment grade Global sub-investment grade |
| Nominal gilts | Over 15 years | 0 to 5 years5 to 15 yearsOver 15 years |
| Inflation- linked bonds | Over 5 years | 0 to 5 years5 to 15 yearsOver 15 years |
| | | 11 |

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The bespoke asset stress tests Stage 2 – risk factor stress tests for derivatives

- Bespoke guidance issued including examples
- Equity derivatives
 - options, futures, total return swaps
- Interest rate derivatives
 - swaps, gilt repos, gilt total return swaps, swaptions
- Inflation derivatives
 - swaps

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The bespoke asset stress tests: Considerations and feedback

- Level of granularity
- Data that is readily available
- Consultant support
- Certification
- Special purpose vehicles
- Trigger-based strategies

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Why choose the bespoke approach?

- Refined stresses are better reflection of benchmarks
- Longer-dated bond benchmarks
- "LDI"
- Equity protection
- Size of scheme does not necessarily reflect complexity of investment strategy

Note: Must do both stages 1 and 2 if adopting the bespoke approach

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