

ESTIMATION TECHNIQUES, RISKS, UNCERTAINTIES AND CONTINGENCIES

Introduction

One of the purposes of insurance is to enable policyholders to protect themselves against uncertain future events. Insurance companies accept the transfer of uncertainty from policyholders and seek to add value through the aggregation and management of these risks.

The uncertainty inherent in insurance is inevitably reflected in the financial statements of insurance companies. The uncertainty in the financial statements principally arises in respect of the insurance liabilities of the company.

The insurance liabilities of an insurance company include the provision for unearned premiums and unexpired risks and the provision for outstanding claims. Unearned premiums and unexpired risks represent the amount of income set aside by the company to cover the cost of claims that may arise during the unexpired period of risk of insurance policies in force at the balance sheet date. Outstanding claims represent the company's estimate of the cost of settlement of claims that have occurred by the balance sheet date but have not yet been finally settled.

In addition to the inherent uncertainty of having to make provision for future events, there is also considerable uncertainty as regards the eventual outcome of the claims that have occurred by the balance sheet date but remain unsettled. This includes claims that may have occurred but have not yet been notified to the company and those that are not yet apparent to the insured.

As a consequence of this uncertainty, the insurance company needs to apply sophisticated estimation techniques to determine the appropriate provisions.

Estimation techniques

Claims and unexpired risks provisions are determined based upon previous claims experience, knowledge of events and the terms and conditions of the relevant policies and on interpretation of circumstances. Particularly relevant is experience with similar cases and historical claims payment trends. The approach also includes the consideration of the development of loss payment trends, the potential longer term significance of large events, the levels of unpaid claims, legislative changes, judicial decisions and economic and political conditions.

Where possible, the Group adopts multiple techniques to estimate the required level of provisions. This assists in giving greater understanding of the trends inherent in the data being projected. The Group's estimates of losses and loss expenses are reached after a review of several commonly accepted actuarial projection methodologies and a number of different bases to determine these provisions. These include methods based upon the following:

- the development of previously settled claims, where payments to date are extrapolated for each prior year;
- estimates based upon a projection of claims numbers and average cost;
- notified claims development, where notified claims to date for each year are extrapolated based upon observed development of earlier years; and
- expected loss ratios.

In addition, the Group uses other methods such as the Bornhuetter-Ferguson method, which combines features of the above methods. The Group also uses bespoke methods for specialist classes of business. In selecting its best estimate, the Group considers the appropriateness of the methods and bases to the individual circumstances of the provision class and underwriting year. The process is designed to select the most appropriate best estimate.

Large claims impacting each relevant business class are generally assessed separately, being measured either at the face value of the loss adjusters' estimates or projected separately in order to allow for the future development of large claims.

Provisions are calculated gross of any reinsurance recoveries. A separate estimate is made of the amounts that will be recoverable from reinsurers based upon the gross provisions and having due regard to collectability.

The claims provisions are subject to close scrutiny both within the Group's business units and at Group Corporate Centre. In addition, for major classes where the risks and uncertainties inherent in the provisions are greatest, regular and ad hoc detailed reviews are undertaken by advisers who are able to draw upon their specialist expertise and a broader knowledge of current industry trends in claims development. As an example, the Group's exposure to asbestos and environmental pollution is examined on this basis. The results of these reviews are considered when establishing the appropriate levels of provisions for outstanding claims and unexpired periods of risk.

It should be emphasised that the estimation techniques for the determination of insurance liabilities involve obtaining corroborative evidence from as wide a range of sources as possible and combining these to form the overall estimate. This technique means that the estimate is inevitably deterministic rather than stochastic. A stochastic valuation approach, whereby a range of possible outcomes is estimated and probabilities assigned thereto, is only possible in a limited number of situations.

The pension assets and pension and post retirement liabilities are calculated in accordance with International Accounting Standard 19 (IAS 19). The assets, liabilities and income statement charge, calculated in accordance with IAS 19, are sensitive to the assumptions made from time to time, including inflation, interest rate, investment return and mortality. IAS 19 compares, at a given date, the current market value of a pension fund's assets with its long term liabilities, which are calculated using a discount rate in line with yields on 'AA' rated bonds of suitable duration and currency. As such, the