#### **ACTUARIAL SOCIETY OF FINLAND**

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# FINNISH STANDARD OF ACTUARIAL PRACTICE 2 (FSAP 2)

# ACTUARIAL FUNCTION REPORT UNDER DIRECTIVE 2009/138/EC

Approved as a standard by the General Assembly of the Actuarial Society of Finland on 11 October 2016

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Section 1	General	3
1.1	Purpose	3
1.2	Scope	3
1.3	Underlying Principles	3
1.4	Materiality	4
1.5	Language	4
1.6	Cross References	4
1.7	Effective Date	5
Section 2	Appropriate Practices	7
2.1	General Principles	7
2.1.1	The Actuarial Function Report and its core parts	7
2.1.4	The Actuarial Function	7
2.1.9	Content of the Actuarial Function Report	8
2.1.12	Feedback on the Actuarial Function Report	8
2.2	Technical Provisions	8
2.2.1	Conclusions on adequacy and reliability of Technical Provisions	8
2.2.2	Important Information about Technical Provisions	9
2.2.3	Disclosure of opening and closing Technical Provisions	9
2.2.4	Co-ordination of process	9
2.2.5	Sufficiency and quality of data	9
2.2.6	Methods and models	10
2.2.7	Assumptions	10
2.2.8	Comparing best estimates against experience	11
2.2.9	Sensitivity analysis	11
2.3	Opinion on underwriting policy	11
2.3.1	Opinion on the overall underwriting policy of the undertaking	11
2.3.2	Areas of consideration	12
2.3.3	Sufficiency of premiums	12
2.3.4.	Environmental changes	12
2.3.5	Adjustment of premiums	12
2.3.6	Anti-selection	12
2.3.7	Interrelationships	13
2.4	Opinion on reinsurance arrangements	13
2.4.1	Opinion on the adequacy of reinsurance arrangements	13
2.4.2	Interrelationships	13
2.4.3.	Effectiveness of reinsurance arrangements	14
2.5	Contribution to risk management	14

### Section 1. General

#### 1.1. Purpose

- 1.1.1 This FINNISH STANDARD OF ACTUARIAL PRACTICE 2 (FSAP 2) provides guidance to actuaries when issuing an Actuarial Function Report (AFR) in connection with an undertaking's compliance with the reporting requirements in Article 48 (1) of the Solvency II Directive and in paragraph 8 of Article 272 of the Commission Delegated Regulation (EU) 2015/35.
- 1.1.2 The purpose of this FSAP is that the **intended users** of the **AFR** should be able to place a high degree of reliance on the **AFR**, its relevance, transparency of assumptions, completeness and comprehensibility, including the **communication** of any uncertainty inherent in the results stated in the **AFR**. In particular it does this by ensuring that the **AFR** 
  - includes sufficient information to enable **intended users** to judge the relevance of the contents of the **AFR**;
  - includes sufficient information to enable **intended users** to understand the implications of the contents of the **AFR**; and
  - such information is presented in a clear and comprehensible manner.
- 1.1.3 This standard will contribute to ensuring consistent, efficient and effective practices within the Actuarial Function (AF) across undertakings in the European Union concerning the preparation of the AFR. This will strengthen and contribute towards harmonised and consistent application of EU legislation.

#### 1.2 Scope

1.2.1 This FSAP applies to actuaries performing actuarial services when issuing an AFR in connection with an undertaking's compliance with Section 6 Article 18(3) of the Act on Insurance Companies (Vakuutusyhtiölaki) and paragraph 8 of Article 272 of the Commission delegated regulation (EU) 2015/35.

#### **1.3 Underlying Principles**

- 1.3.1 This FSAP is based on four principles, which should be borne in mind in any assessment of compliance with this FSAP.
- 1.3.2 **Principle 1**: <u>Actuarial services</u> related to the <u>AFR</u> must be carried out consistently with Solvency II regulations and guidelines.
- 1.3.3 Principle 2: <u>Actuarial services</u> related to the <u>AFR</u> should be carried out in a way which is proportional to the nature, scale and complexity of the underlying risks of the <u>undertaking</u>. (Principle of Proportionality)

- 1.3.4 **Principle 3**: <u>Actuarial services</u> related to the <u>AFR</u> should be consistent with the code of professional conduct of the actuarial profession and with any applicable general actuarial standards.
- 1.3.5 **Principle 4**: The **AFR** should be structured according to the needs of the **intended users**, in particular the **Administrative**, **Management or Supervisory Body** (**AMSB**).

#### 1.4 Relationship to FSAP 1

- 1.4.1 Insofar as possible, this FSAP does not repeat guidance already provided in FSAP 1. Any actuary who asserts compliance with this FSAP must also comply with FSAP 1. References in FSAP 1 to "this FSAP" should be interpreted as applying equally to this FSAP 2, where appropriate.
- 1.4.2 A failure to follow the principles in this standard need not be considered a departure if it does not have a **material** effect. The contents of this standard should be read in that context, even where the term **material** is not explicitly used or where the word "must" is used.

#### 1.5 Language

- 1.5.1 Some of the language used in all FSAPs is intended to be interpreted in a very specific way in the context of a decision of the <u>actuary</u>. In particular, the following verbs are to be understood to have the meanings indicated:
  - a. "must" means that the indicated action is mandatory and failure to follow the indicated action will constitute a failure to comply with this FSAP, unless the departure is due to a conflict with law (FSAP 1 paragraph 1.3.1) or code of professional conduct (FSAP 1 paragraph 1.3.2).
  - b. "should" (or "shall") means that, under normal circumstances, the <u>actuary</u> is expected to follow the indicated action, unless the departure is due to a conflict with law (FSAP 1 paragraph 1.3.1) or code of professional conduct (FSAP 1 paragraph 1.3.2). However, in all other cases, if following the indicated action would produce a result that would be inappropriate or would potentially mislead the <u>intended users</u> of the <u>actuarial services</u>, the <u>actuary</u> should depart from that guidance and disclose that fact and provide the reason for not following the indicated action as described in FSAP 1 paragraph 1.3.3.
  - c. "may" means that the indicated action is not required, nor even necessarily expected, but in certain circumstances is an appropriate activity, possibly among other alternatives. Note that "might" is not used as a synonym for "may", but rather with its normal meaning.
  - d. "any" (as in e.g. "any report") means all such items if they exist, while acknowledging they may not exist. Such a reference does not give rise to a requirement to create such an item.
- 1.5.2 This FSAP uses various terms whose specific meaning is defined in the AAE Glossary. These terms are highlighted in the text with a dasched underscore and in blue (e.g. actuary).

#### 1.6 Cross references

1.6.1 This FSAP refers to the content of the <u>Solvency II Directive</u> and the Commission Delegated Regulation (EU) 2015/35 supplementing the <u>Solvency II Directive</u>, both as amended as per the approval date of this FSAP. If the <u>Solvency II Directive</u> or the Commission Delegated Regulation (EU) 2015/35 is subsequently amended, restated, revoked, or replaced after this date, the <u>actuary</u> should apply the principles in this FSAP to the extent they remain relevant.

#### 1.7 Effective Date

1.7.1. This standard applies to <u>actuarial services</u> relating to an <u>Actuarial Function Report</u> performed after [Date].

## Section 2. Appropriate Practices

#### 2.1 General principles

#### 2.1.1 The Actuarial Function Report and its core parts

- 2.1.1.1 The Actuarial Function (AF) must produce a written report (the Actuarial Function Report (AFR)) to be submitted to the Administrative, Management or Supervisory Body (AMSB), at least annually. The actuary should consider that the intended user is the AMSB but may also include other functions of the undertaking or any related undertaking and the relevant supervisory authorities.
- 2.1.1.2 The <u>AFR</u> should have a form, structure, style, level of detail and content which is appropriate to the particular circumstances, taking into account the <u>intended users</u>. This may lead to an <u>AFR</u> consisting of several component <u>reports</u> focusing on specific content which may be provided to the <u>AMSB</u> separately and at different points of time.

#### 2.1.1.3 The **AFR** should:

(a) state which Actuarial Standards apply to the <u>work</u> that has been carried out and whether the <u>work</u> complies with those Actuarial Standards;
(b) state which Actuarial Standards apply to the <u>AFR</u> and whether the <u>AFR</u> complies with those Actuarial Standards; and
(c) give particulars of any <u>material</u> departures from the Actuarial Standards referred to in (a) and (b) above.

#### 2.1.2 The Actuarial Function

- 2.1.2.1 The **AFR** must document a summary of all major tasks that have been undertaken by the **AF** and their results.
- 2.1.2.2 The <u>AFR</u> should set out information identifying relevant <u>conflicts of interest</u> and describing how they have been managed including any potential <u>conflicts of interest</u> between the individual <u>undertaking</u> and any group of which it is a part.
- 2.1.2.3 In applying 2.3 and 3.2.3.f of FSAP 1 the **AF** should disclose any **material** reliance on other person's work and how the **AF** gained assurance on the reliability of the other person's work.
- 2.1.2.4 The **AFR** must identify the individuals responsible for writing the **AFR**, and, if applicable, the person taking overall responsibility for its production.
- 2.1.2.5 The <u>AFR</u> may provide information to demonstrate that each of the contributors to the <u>AFR</u>, and, if applicable, the individual taking overall responsibility for the <u>AFR</u>, has the relevant knowledge and experience to fulfil the role.

#### 2.1.3 Content of the Actuarial Function Report

- 2.1.3.1 The **AFR** must clearly identify any deficiencies and give recommendations as to how such deficiencies should be remedied having regard to **materiality** and proportionality.
- 2.1.3.2 The AFR should include sufficient information and discussion about each area covered soas to enable the AMSB to judge its implications.
- 2.1.3.3 The <u>AFR</u> should summarise the key <u>data</u> used to reach the opinions expressed and should draw attention to any <u>material</u> areas of uncertainty and their sources, and also to any <u>material professional judgement</u> made in the assessments by the <u>AF</u>.

#### 2.1.4 Feedback on the Actuarial Function Report

- 2.1.4.1 The AF should discuss its conclusions and recommendations with management when finalizing the AFR. After submission of an AFR to the AMSB, the AF should seek feedback from the AMSB on the contents of the AFR and should have regard to that feedback when preparing future AFRs.
- 2.1.4.2 Details of whether recommendations in the **AFR** have been accepted and, if so, on progress towards implementation, should be summarised in the next **AFR**.

#### 2.2 Technical Provisions

#### 2.2.1 Conclusions on adequacy and reliability of Technical Provisions

- 2.2.1.1 The <u>AFR</u> must clearly state the conclusions of the <u>AF</u> with regard to its analysis of the adequacy and reliability of the <u>Technical Provisions</u>. The conclusions should include any concerns the <u>AF</u> has in this regard and identify <u>material</u> shortcomings or deficiencies, with recommendations as to how these could be remedied.
- 2.2.1.2 The **AFR** should include the results of an assessment whether the **Technical Provisions** have been calculated in accordance with Articles 75 to 86 of the **Solvency II Directive** and advise if any changes are necessary in order to achieve compliance.
- 2.2.1.3 The AFR must clearly state the sources and degree of uncertainty the AF has assessed in relation to the estimates made in the calculation of the Technical Provisions. The AFR should explain the potential sources of uncertainty and, where appropriate, illustrate uncertainty by reference to possible scenarios.

#### 2.2.2 Important information about Technical Provisions

- 2.2.2.1 The <u>AF</u> should ensure that the factors which have a <u>material</u> impact on the amount of <u>Technical Provisions</u>, including risk drivers and assumptions, are made clear in the <u>AFR</u>.
- 2.2.2.2 In particular the <u>AFR</u> should draw attention to any <u>material</u> judgements made in the identification of the boundary of insurance or reinsurance contracts and in the calculation of <u>Technical Provisions</u>.

#### 2.2.3 Disclosure of opening and closing Technical Provisions

2.2.3.1 The AFR should disclose the opening and closing <u>Technical Provisions</u>, split, to the extent possible, between best estimate and risk margin. A commentary on the impact on the Own Funds of the main items of movement of <u>Technical Provisions</u> should be provided.

#### 2.2.4 Co-ordination of process

2.2.4.1 The <u>AFR</u> should include a broad overview of the overall process employed in respect of the calculation of the <u>Technical Provisions</u>.

#### 2.2.5 Sufficiency and quality of data

- 2.2.5.1 The <u>AFR</u> must include an overview of the controls surrounding the <u>data</u> used in the calculation of <u>Technical Provisions</u> and an explanation of how the <u>AF</u> is comfortable that the <u>data</u> is appropriate, accurate, reliable and complete.
- 2.2.5.2 The AFR must identify any material uncertainties or limitations in the data and outline the approach taken to these in the context of the calculation of Technical Provisions. Limitations might include, but are not restricted to, its fitness for purpose, consistency over time, timeliness, information technology systems, availability of individual policy and claims data and of historical data.
- 2.2.5.3 The **AFR** should give an overview of the business covered by the **Technical Provisions**, the split of **data** into homogeneous risk groups and how this split has been assessed for appropriateness in relation to the underlying risks of the **undertaking**.
- 2.2.5.4 The **AFR** should consider relevant information provided by financial markets and generally available **data** on **underwriting** risks and explain how it is integrated into the assessment of the **Technical Provisions**.
- 2.2.5.5 The <u>AFR</u> should disclose any concern the <u>AF</u> has on the documentation describing the process of the collection of <u>data</u> and analysis of its quality and other information that relates to the calculation of <u>Technical Provisions</u>, including any concern the <u>AF</u> has on the directory of the <u>data</u> used in the calculation of the <u>Technical Provisions</u>.

#### 2.2.6 Methods and models

- 2.2.6.1 The AFR must provide an overview about how the appropriateness of the methods and **models** used in the calculation of the **Technical Provisions** has been assessed with regard to the main drivers of risk, the lines of business of the **undertaking** and the way in which the business is being managed.
- 2.2.6.2 The AFR should draw attention to any unusual or non-standard method not within usual market practices which has been used to calculate <u>Technical Provisions</u>, including a description of the rationale for the choice of method.
- 2.2.6.3 The <u>AFR</u> should include, where appropriate, an overview of the methods used to calculate <u>Technical Provisions</u> in respect of contracts where the insufficiency of the <u>data</u> has prevented the application of a reliable actuarial method, specifically those cases referred to in Article 82 of the <u>Solvency II Directive</u>. The <u>AFR</u> should include an assessment of the appropriateness of the approximations used in the calculations of <u>Technical Provisions</u> for such contracts.
- 2.2.6.4 The <u>AFR</u> must include an assessment of the appropriateness of the methods and <u>models</u> used in the calculation of options and guarantees included in insurance or reinsurance contracts and in the valuation of these options and guarantees in the <u>Technical Provisions</u>.
- 2.2.6.5 The AFR should indicate if the AF assesses that the information technology systems used in the calculation of Technical Provisions do not sufficiently support the actuarial and statistical procedures.
- 2.2.6.6 Where the calculation of <u>Technical Provisions</u> depends on multiple methods or <u>models</u>, the <u>AFR</u> should make reference to any <u>material</u> differences between the results according to these methods or <u>models</u> and what allowance has been made for the differences.
- 2.2.6.7 The **AFR** should disclose and justify any **material** changes in methods or **models** from those used in the previous **AFR** and quantify the effect on the **Technical Provisions**.

#### 2.2.7 Assumptions

- 2.2.7.1 The **AFR** must include a description of how the appropriateness of the **data** and methods used to determine the assumptions underlying the **Technical Provisions** have been assessed.
- 2.2.7.2 The **AFR** should disclose the key assumptions underlying the calculation of the **Technical Provisions** and explain their appropriateness in relation to the main drivers of risk likely to affect the insurance or reinsurance obligations of the **undertaking**.
- 2.2.7.3 The **AFR** should disclose any **material** changes made to the assumptions used compared to the previous **AFR**.

- 2.2.7.4 The **AFR** should disclose its assessment of the appropriateness of **material** judgements made in the determination of assumptions. These may include, but are not restricted to, assumptions or interpretations made in relation to the following:
  - contractual options and guarantees;
  - policyholder behaviour;
  - future management actions;
  - amounts recoverable from counterparties;
  - areas of future discretion exercised by the <u>undertaking</u> which might impact its insurance or reinsurance obligations; and
  - obligations which might exist over and above contractual obligations.

#### 2.2.8 Comparing best estimates against experience

- 2.2.8.1 The AFR should include an overview of the process used to compare best estimates against actual experience and must draw attention to any concerns the AF has in regard to the effectiveness of this process.
- 2.2.8.2 The <u>AFR</u> should disclose the findings of the <u>AF</u>'s review of the quality of past best estimates and the conclusions from this in relation to the appropriateness of <u>data</u>, methods or assumptions used in the calculation of the <u>Technical Provisions</u>. In reviewing the quality of past estimates, the <u>AFR</u> should draw attention to those areas where actual experience has deviated in a <u>material</u> way from the assumptions made and provide a commentary in this regard. It may assist understanding if this commentary distinguishes between deviations which are judged to arise from volatility of the underlying experience and those which are viewed as relevant to the appropriateness of the <u>data</u>, methods or assumptions used. The <u>AFR</u> should disclose any <u>material</u> judgement when such a distinction is made.

#### 2.2.9 Sensitivity analysis

2.2.9.1 The AFR must report on the results of an analysis of the sensitivity of the Technical Provisions to each of the major risks underlying the obligations which are covered in the Technical Provisions.

#### 2.3 **Opinion on underwriting policy**

#### 2.3.1 Opinion on the overall underwriting policy of the undertaking

- 2.3.1.1 The AFR must express an opinion on the overall underwriting policy of the undertaking.
- 2.3.1.2 The **AFR** should set out how the **AF** has arrived at its opinion on the overall **underwriting** policy of the **undertaking**.
- 2.3.1.3 The AFR should explain any concerns which the AF may have as to the suitability of the

overall **underwriting** policy.

2.3.1.4 The **AFR** should outline recommendations to remedy any deficiencies the **AF** has identified in relation to the overall **underwriting** policy having regard to **materiality** and proportionality.

#### 2.3.2 Areas of consideration

2.3.2.1 An assessment of the suitability of the overall <u>underwriting</u> policy should at least include the areas set out in 2.3.3 to 2.3.7.

#### 2.3.3 Sufficiency of premiums

2.3.3.1 The **AFR** must conclude whether the premiums are expected to be sufficient in the light of the operation of the overall **underwriting** policy. The assessment must take into consideration the impact of the underlying risks (including **underwriting** risks) to which the business is exposed and the impact on the sufficiency of premiums of options and guarantees included in insurance and reinsurance contracts.

#### 2.3.4 Environmental changes

2.3.4.1 The **AFR** should describe the external environmental factors which have the potential to influence the profitability of new business including renewals. These factors might include inflation, legal risk, sustainability risks and changes in the market in which the **undertaking** operates affecting business volumes and business mix.

#### 2.3.5 Adjustments to premiums

2.3.5.1 For products where premiums may be adjusted in response to experience, the <u>AFR</u> must comment on the effect of systems which adjust the premiums policyholders pay upwards or downwards depending on their claims history (bonus-malus systems) or similar systems, implemented in specific homogeneous risk groups.

#### 2.3.6 Anti-selection

2.3.6.1 The AFR must include the AF's conclusions concerning anti-selection risks within the undertaking's portfolio of contracts if these risks might have an adverse impact on the Technical Provisions or sufficiency of premiums. The AFR should outline the AF's recommendations for improvements to the underwriting policy which might mitigate these risks.

#### 2.3.7 Interrelationships

- 2.3.7.1 The **AFR** should outline the extent to which the overall **<u>underwriting</u>** policy of the **<u>undertaking</u>** is not consistent with other relevant policies of the <u>undertaking</u>.
- 2.3.7.2 This should at least include an assessment of the consistency with the risk appetite and the reinsurance arrangements of the <u>undertaking</u> and with the <u>underwriting</u> risks that the <u>undertaking</u> reflects in the calculation of the <u>Technical Provisions</u>.

#### 2.4 **Opinion on reinsurance arrangements**

#### 2.4.1 Opinion on the adequacy of reinsurance arrangements

- 2.4.1.1 The AFR must express an opinion on the adequacy of the reinsurance arrangements.
- 2.4.1.2 The **AFR** should explain any concerns which the **AF** may have concerning the adequacy of the reinsurance arrangements.
- 2.4.1.3 If the <u>AF</u> identifies deficiencies the <u>AFR</u> should outline recommendations to improve the reinsurance arrangements, including actions which might be taken to:
  - eliminate inconsistencies in reinsurance coverage;
  - reduce the risk of non-performance by reinsurance counterparties; and
  - extend coverage of material risks.
- 2.4.1.4 The **AFR** should set out how the **AF** has arrived at its **opinion**.

#### 2.4.2 Interrelationships

- 2.4.2.1 The **AFR** should outline the extent to which the reinsurance arrangements of the **undertaking** are not consistent with the **undertaking**'s:
  - risk appetite;
  - **underwriting** policy; and
  - underwriting risk,

and include recommendations as to how any inconsistencies should be remedied.

2.4.2.2 The commentary on interrelationships should incorporate the AF's assessment of the credit standing of reinsurance counterparties, including the assessment whether the <u>undertaking</u> needs to produce and use its own internal credit assessment of one or more of the reinsurance counterparties.

#### 2.4.3 Effectiveness of reinsurance arrangements

- 2.4.3.1 The **AFR** should include assessments of how the reinsurance arrangements, including any special purpose vehicles, might respond in a number of stressed scenarios or refer to where this is considered in the ORSA. The scenarios might include:
  - catastrophic claims experience;
  - risk aggregations;
  - reinsurance defaults; and
  - reinsurance exhaustion.
- 2.4.3.2 The assessments should include indications of:
  - the amounts recoverable from reinsurance contracts and special purpose vehicles; and
  - the impact on the **undertaking**'s own funds.
- 2.4.3.3 The assessments should consider, if appropriate, the impact of reinstatements or renewal of reinsurance cover and the potential unavailability of reinsurance cover.
- 2.4.3.4 The <u>AFR</u> might include an assessment of the effectiveness of the reinsurance arrangements in mitigating the volatility of the <u>undertaking</u>'s own funds.

#### 2.5 Contribution to risk management

- 2.5.1 The AFR should describe the areas where the AF has made a material contribution to the implementation of the risk management system and the work performed. In particular, this should cover the contribution of the AF to the risk modelling underlying the calculation of the capital requirements, including contribution to the modelling of the loss-absorbing capacity of deferred taxes. It should also cover the contribution that the AF has made with regard to the assessment of the expected profit included in future premiums (EPIFP). Other examples might include the role of the AF and its contribution in relation to the internal model, the identification of material deviations in the company's risk profile from the assumptions underlying the standard formula and the contribution of the AF to the ORSA process, including its views in relation to the stress- and scenario-testing undertaken.
- 2.5.2 The **AFR** may summarise the main findings of these activities and in such cases should provide appropriate reference to reporting from the risk management function.