

October 2016

Rationale for change:

Version 4.2 of AS TM1: Statutory
Money Purchase Illustrations

The FRC is responsible for promoting high quality corporate governance and reporting to foster investment. We set the UK Corporate Governance and Stewardship Codes as well as UK standards for accounting, auditing and actuarial work. We represent UK interests in international standard-setting. We also monitor and take action to promote the quality of corporate reporting and auditing. We operate independent disciplinary arrangements for accountants and actuaries, and oversee the regulatory activities of the accountancy and actuarial professional bodies.

The FRC does not accept any liability to any party for any loss, damage or costs howsoever arising, whether directly or indirectly, whether in contract, tort or otherwise from any action or decision taken (or not taken) as a result of any person relying on or otherwise using this document or arising from any omission from it.

© The Financial Reporting Council Limited 2016

The Financial Reporting Council Limited is a company limited by guarantee.

Registered in England number 2486368. Registered Office:

8th Floor, 125 London Wall, London EC2Y 5AS

1 INTRODUCTION

- 1.1 Since 6 April 2003, certain money purchase pension arrangements have been required to provide members with Statutory Money Purchase Illustrations (SMPIs). Legislation requires that statutory illustrations are produced in accordance with guidance prepared by a prescribed body approved by the Secretary of State for Work and Pensions and by the Department for Social Development in Northern Ireland.
- 1.2 The FRC is the prescribed body and fulfils its obligations through the publication of Actuarial Standard *Technical Memorandum TM1: Statutory Money Purchase Illustrations* (AS TM1) which it reviews regularly.

2 AIMS AND AUDIENCE OF THIS DOCUMENT

- 2.1 The aim of this document is to set out the rationale for amendments we have made to AS TM1 following the publication of updated mortality tables by the Institute and Faculty of Actuaries' Continuous Mortality Investigation (CMI) and changes to release dates for its mortality projection model.
- 2.2 This document has been written for anyone with an interest in SMPIs, including those responsible for providing SMPIs (trustees, insurers, and administrators), the pension scheme members and policyholders who receive SMPIs, and those organisations which represent and advise these groups.

3 CHANGES MADE IN VERSION 4.2 OF AS TM1

- 3.1 Paragraphs C.3.9 and C.3.10 currently specify mortality tables and a projection model produced by the CMI as follows:
 - **Base table assumption:** PCFA00 and PCMA00.
 - **Mortality improvement assumption:** the annually updated CMI mortality projection model.
- 3.2 In June 2015, the CMI published new "08" series tables¹ which are based on experience data from 2007-2010.
- 3.3 We consider that the mortality assumptions specified in AS TM1 should reflect up-to-date experience and therefore have amended paragraph C.3.9 of AS TM1 to require the use of the new "08" series tables.
- 3.4 In June 2015, following consultation, the CMI also confirmed its intention to change its mortality projection model release dates². It published projection model CMI_2015 in September 2015, and has moved to March release

¹ <http://www.actuaries.org.uk/research-and-resources/pages/cmi-working-paper-81>

² <http://www.actuaries.org.uk/research-and-resources/pages/cmi-working-paper-80>

dates starting with the release of projection model CMI_2016 in March 2017. No model will be published in the 2016 calendar year.

- 3.5 AS TM1 currently requires illustrations with illustration dates in the range 6 April 2017 to 5 April 2018 to use CMI_2016 mortality projection model. However, with the revised release dates, this model will not be available until March 2017 giving providers very little time before its first required use date (6 April 2017) to update and test their systems.
- 3.6 We have amended paragraph C.3.10 of AS TM1 to require the use of the CMI mortality projection model published in the previous year.
- 3.7 The appendix contains version 4.2 of AS TM1 with changes tracked from version 4.1.

4 CONSISTENCY WITH FCA RULES

- 4.1 In October 2015, the FCA consulted (CP 15/30)³ on making the changes to the same mortality assumptions as detailed above for projections required under its COBS rules.
- 4.2 In its Policy Statement in response to this consultation (PS 16/12)⁴, in light of the feedback it received, the FCA confirmed its intention to proceed with the changes with effect from 6 April 2017. Therefore, in making these changes to AS TM1 the FRC is maintaining consistency across FCA projections and SMPs.

5 IMPLEMENTATION OF VERSION 4.2 OF AS TM1

- 5.1 Version 4.2 of AS TM1 will be effective for statutory illustrations issued on or after 6 April 2017.
- 5.2 We do not envisage that the relatively short time for implementation should cause any difficulties as providers are already required to update the mortality assumptions annually. We do not consider there is a need for transitional provisions.

6 IMPACT ASSESSMENT

- 6.1 As noted in AS TM1, the FRC reviews AS TM1 regularly and it is possible that the methods and assumptions used will be amended as a result. Providers are strongly advised to take account of the possibility of such changes when devising systems to produce statutory illustrations.
- 6.2 The changes outlined in this paper ensure that AS TM1 remains theoretically and practically fit for purpose.
- 6.3 Providers are already required to update mortality assumptions annually in line with the annual update to the CMI's improvement model. The new tables are published in the same format as the tables currently prescribed,

³ Paragraphs 5.62 to 5.64 of <https://www.fca.org.uk/static/documents/consultation-papers/cp15-30.pdf>

⁴ Paragraphs 4.50 to 4.51 of <https://www.fca.org.uk/static/fca/documents/policy-statements/ps16-12.pdf>

therefore we consider the changes should not be onerous for providers to implement and will not result in a significant amount of additional work for providers. Additionally, there are efficiencies associated with maintaining consistency with the FCA's rules.

- 6.4 The CMI has confirmed its intention to continue to produce a set of unisex mortality rates that are intended to assist actuaries producing SMPs in accordance with AS TM1.

Appendix: Tracked changes version 4.2 of AS TM1 from version 4.1

AS TM1:
STATUTORY MONEY PURCHASE ILLUSTRATIONS

VERSION 4.2~~1~~

AS TM1: STATUTORY ILLUSTRATIONS OF MONEY PURCHASE BENEFITS

Status

Legislation provides that **statutory illustrations** must be produced in accordance with relevant guidance prepared by a prescribed body. The Financial Reporting Council (FRC) has been appointed as the prescribed body for that purpose. *AS TM1: Statutory Money Purchase Illustrations* is that relevant guidance.

AS TM1 does not replace or amend the **legislation**. If it appears that any matter in AS TM1 conflicts with any provision of the **legislation** then the latter will prevail.

The FRC does not accept any liability to any party for any loss, damage or costs howsoever arising, whether directly or indirectly, whether in contract, tort or otherwise from any action or decision taken (or not taken) as a result of any person relying on or otherwise using this document, [or any part of it](#), or arising from any omission from it.

Purpose

The purpose of AS TM1 is to specify the assumptions and methods to be used in the calculation of **statutory illustrations** of money purchase pensions.

Application

AS TM1 applies to the production of any **statutory illustration**.

Effective date

AS TM1 version 4.~~2~~⁴ is effective for **statutory illustrations** issued on or after 6 April 201~~5~~⁷. ~~Earlier adoption of version 4.1 is permitted.~~

Future changes to AS TM1

The FRC reviews AS TM1 regularly. It is possible that the methods and assumptions used will be amended as a result. It is likely that some of the assumptions in Part C will be changed from time to time, and **providers** are strongly advised to take account of the possibility of such changes when devising systems to produce **statutory illustrations**.

CONTENTS

<i>Part</i>		<i>Page</i>
A	Interpretation	3
	A.1 Interpretation of the text	3
	A.2 Glossary	3
B	Determining the amount of pension to be illustrated	6
	B.1 Introduction	6
	B.2 The amount of pension to be illustrated	6
	B.3 Accumulated fund	6
	B.4 Current fund	7
	B.5 Future contributions	8
	B.6 Risk benefits	9
	B.7 Annuity rate	10
	B.8 General considerations	10
C	Assumptions	11
	C.1 Introduction	11
	C.2 Accumulation	11
	C.3 Annuity	12

A INTERPRETATION

A.1 INTERPRETATION OF THE TEXT

- A.1.1 This technical memorandum (AS TM1) should be interpreted in the light of the purpose set out in the rubric on page 1.
- A.1.2 **Providers** may adopt a different approach from that specified in AS TM1 if it does not materially affect the result of the calculation of the **statutory illustration**. For example, this may apply to the order in which the calculations are carried out.
- A.1.3 Any assumptions that are used which are not specified in AS TM1 should be reasonable. Such assumptions might include the valuation of property assets, the treatment of contributions if payment records are incomplete, or the level of contributions which will be paid to schemes used to satisfy automatic enrolment legislation.
- A.1.4 If a **member's current fund** is invested in a with-profits fund (including with-profits deferred annuity contracts) the **statutory illustration** should be provided in a manner consistent with AS TM1 and with the insurer's bonus policy.

A.2 GLOSSARY

- A.2.1 Terms appearing in **bold** in the text are used with these meanings:

accumulation rate	The annual rate of return assumed to be earned up to retirement date from the current fund and future contributions .
annuity rate	The value of an annual pension of £1 at retirement date calculated using the assumptions specified in AS TM1.
current fund	The relevant assets of the scheme in relation to the member's money purchase benefits at the illustration date .
future contributions	All money purchase contributions due after the illustration date which the provider determines to be part of a regular pre-determined series of contributions expected to continue until the member's retirement date .
illustration date	The date specified by the provider as the date by reference to which amounts are calculated for the purpose of the statutory illustration . The illustration date will normally be the specified date .
inflation factor	The accumulated assumed inflation from the illustration date to the retirement date .
inflation rate	The assumed annual rate of inflation.

legislation	<p>Legislation governing the provision of statutory illustrations including but not limited to:</p> <ul style="list-style-type: none"> a) <i>the Pension Schemes Act 1993 (c.48) Section 113;</i> b) <i>the Occupational and Personal Pension Schemes (Disclosure of Information) Regulations 2013 (SI 2013/2734);</i> c) <i>the Stakeholder Pension Schemes Regulations 2000 (SI 2000/1403); and</i> d) <i>the Occupational, Personal and Stakeholder Pension Schemes (Disclosure of Information) Amendment Regulations 2010 (SI 2010/2659).</i> <p>Northern Ireland has its own body of law relating to pensions with corresponding legislation.</p>
lump sum	The amount of the benefit assumed by the provider to be taken as cash by the member at retirement date .
member	Any person eligible to receive a statutory illustration from a scheme .
net nominal accumulated fund	The nominal accumulated fund reduced by the lump sum , if any.
nominal accumulated fund	The current fund and future contributions accumulated to the retirement date adjusted where relevant for tax relief, charges and expenses.
provider	The trustees or managers of a scheme , or any other party preparing a statutory illustration on their behalf. Other parties might include advisers, insurance companies or software houses.
net real accumulated fund	The net nominal accumulated fund expressed in today's (inflation adjusted) terms.
retirement date	<p>A date which the member has specified to the provider and which is acceptable to the provider; or where no acceptable date has been specified by the member, a date specified by the provider.</p> <p>A member may have more than one retirement date for different funds or contracts within a scheme.</p>
risk benefits	Benefits payable on death, sickness or critical illness.
scheme	A pension arrangement that is required to provide a statutory illustration under the legislation .
scheme year	The period specified for the provision of a statutory illustration .

specified date	The date the fund is valued for the purpose of the legislation . For an occupational pension scheme , this is normally the last day of the scheme's administrative year.
statutory illustration	The amount of pension (after allowance for any lump sum) calculated in accordance with AS TM1.
statutory illustration statement	The statutory illustration and accompanying information.

B DETERMINING THE AMOUNT OF PENSION TO BE ILLUSTRATED

B.1 INTRODUCTION

B.1.1 This Part sets out the method which must be followed for calculating **statutory illustrations**.

B.2 THE AMOUNT OF PENSION TO BE ILLUSTRATED

B.2.1 The **statutory illustration** is the annual amount of pension calculated by dividing the **net real accumulated fund** (see section B.3) by the **annuity rate** (see section B.7).

B.2.2 The **statutory illustration** must be shown in whole pounds, rounded down to 3 significant figures. If the result is under £1,000 and is not an exact multiple of £10, it may be rounded down to the next lower multiple of £10.

B.2.3 Any resulting monthly pension of less than £10 may be shown as “less than £10 each month” or “less than £120 each year”.

B.3 ACCUMULATED FUND

B.3.1 The **net real accumulated fund** must be calculated by dividing the **net nominal accumulated fund** by the **inflation factor** (see paragraph B.3.6).

B.3.2 The **nominal accumulated fund** must be calculated as the sum of:

- the accumulated **current fund**, if any;
- the accumulated **future contributions**, if any; and
- the accumulated amount of any tax relief expected to be reclaimed and credited to the **scheme** for the benefit of the **member** in respect of **future contributions**;

reduced by:

- the accumulated amount of the costs of any **risk benefits**; and
- the accumulated amount of charges or expenses, if the terms of the **scheme** require such charges or expenses to be deducted from **future contributions** or the **current fund**.

B.3.3 Each element of the **nominal accumulated fund** must be accumulated from the relevant date to the **retirement date** at the rate of accumulation determined in accordance with paragraphs C.2.3 to C.2.6. The relevant date is:

- for the **current fund**, the **illustration date**;
- for each individual payment of **future contributions** or tax relief, the date on which the payment is due to be received by the **scheme**; and
- for each individual payment of charges or expenses or cost of **risk benefits**, the date on which the payment is due to be paid.

B.3.4 The **net nominal accumulated fund** is the **nominal accumulated fund** reduced by the **lump sum**.

B.3.5 If the **net nominal accumulated fund** is less than zero, zero must be used instead.

Inflation factor

B.3.6 The **inflation factor** must be calculated by compounding the **inflation rate** specified in paragraph C.2.7 from the **illustration date** to the **retirement date**.

B.4 CURRENT FUND

B.4.1 The **current fund** is the value of the relevant assets of the **scheme** in relation to the **member's** money purchase benefits at the **illustration date**. The **current fund** must be based on a realistic asset value such as:

- a) the market value of the assets;
- b) the bid value of relevant units;
- c) for an insured **scheme**, the policy value on an ongoing basis;
- d) for a **scheme** where a **member's** rights are determined as a share of the **scheme's** assets, the value of the **member's** share; or
- e) for a with-profits fund or if assets are not readily marketable, a value consistent with the principles of AS TM1 .

B.4.2 The **current fund** includes allowances for any contributions due at the **illustration date** and for the recovery of any tax due to the **illustration date**. It is not necessary to discount these allowances from their expected payment dates. Allowances which are unlikely to change the **statutory illustration** may be omitted.

B.4.3 A **provider** may omit the allowances referred to in paragraph B.4.2 from the **current fund**, provided that if there are **future contributions**, any items due but unpaid which have been omitted from the **current fund** are treated as **future contributions**.

B.4.4 If the **member** is in receipt of income drawdown in respect of part of the assets of the **scheme**, those assets must be omitted from the **current fund**.

B.4.5 Outgoing transfer values which have been agreed but not paid on or before the **illustration date** must not be deducted from the **current fund**.

B.5 FUTURE CONTRIBUTIONS

B.5.1 **Future contributions** are all money purchase contributions due after the **illustration date** which the **provider** determines to be part of a regular pre-determined series of contributions, irrespective of the formal basis on which contributions are determined. They do not include contributions made after the **illustration date** which are not part of a series of pre-determined payments which are expected to continue.

B.5.2 When determining whether a **member** should be treated as paying **future contributions**, **providers** should take into account factors including the **member's** expectations and the certainty of payment. In the following examples the **member** should normally be treated as paying **future contributions**:

- a **member** of an occupational **scheme** paying a percentage of earnings from time to time (irrespective of whether or not the **member** has an option to change the percentage rate); an exception might be if the **member** is employed on a short-term contract and there is no continuity of employment or of contributions;
- a **member** paying regular contributions into a personal pension or stakeholder pension **scheme** under a direct debit or standing order;
- it is clear from the **provider's** records that regular payments (such as a particular cash amount or a percentage of earnings) are intended; and
- a **scheme's** terms describe future money purchase contributions as being single payments, and they form a series of pre-determined payments which are expected to continue until the **member** reaches **retirement date** or State Pension Age.

Initial level of future contributions

B.5.3 The initial level of **future contributions** must be the actual amount of **future contributions** payable for the **scheme year** following the **illustration date** if it is known.

B.5.4 If paragraph B.5.3 does not apply and if the amount of **future contributions** is determined as an amount which increases in line with inflation or as a proportion of the **member's** earnings, the initial level of **future contributions** must be the latest known amount of contributions increased for the appropriate period at the rate specified in paragraph C.2.7 or C.2.8 respectively.

B.5.5 If neither paragraph B.5.3 nor paragraph B.5.4 applies the initial level of **future contributions** must be the last known annual amount.

B.5.6 If the amount of **future contributions** is related to the **member's** earnings and if the **provider** does not have detailed information about the **member's** earnings or if earnings are expected to fluctuate significantly from year to year, the initial level of **future contributions** must be estimated.

B.5.7 For many occupational **schemes** the definition of earnings for pension contributions is updated annually, on the first day of the **scheme year**. In such cases the initial level of **future contributions** may be based on the **member's** earnings on the day after the **illustration date**. **Providers** may ignore any information they have about changes in the **member's** earnings which occur after the day after the **illustration date**.

Subsequent levels of future contributions

- B.5.8 **Future contributions** must be assumed to increase in accordance with **scheme** provisions or with recognised practice. If there are no **scheme** provisions regarding the increase of contributions, or if there is no recognised practice of increasing contributions, **future contributions** must be assumed to remain unchanged until **retirement date**.
- B.5.9 **Future contributions** which are determined as a proportion of the **member's** earnings must be assumed to increase at the rate specified in paragraph C.2.8.
- B.5.10 **Future contributions** which increase in line with inflation must be assumed to increase at the rate specified in paragraph C.2.7.
- B.5.11 It may be assumed that **future contributions** which relate to the payment of the maximum non-earnings-related amount into a personal or stakeholder pension **scheme** remain fixed or increase at the rate specified in paragraph C.2.7.
- B.5.12 If the amounts of contributions payable are subject to a maximum of a fixed monetary amount or a deduction of a fixed monetary amount the **provider** must deal with the situation in an appropriate manner.
- B.5.13 A deduction which is specified in such a way that it will, or is expected to, increase broadly in line with State benefits or contribution limits or with earnings must be assumed to increase at the rate specified in paragraph C.2.7 or C.2.8 as appropriate.
- B.5.14 Contributions which are age-related or term-related must be dealt with in an appropriate manner.
- B.5.15 If the last known amount of contributions does not relate to a period of 12 months the **provider** must deal with the situation in an appropriate manner.

Transferred benefits

- B.5.16 Incoming transfer values which have been agreed but are outstanding at the **illustration date** must not be included in **future contributions**.

B.6 RISK BENEFITS

Initial level of the cost of risk benefits

- B.6.1 If the cost of **risk benefits** payable for the **scheme year** following the **illustration date** is known, it should normally be used for the initial level of the cost of **risk benefits**.
- B.6.2 If paragraph B.6.1 does not apply and if the cost of **risk benefits** is determined as an amount which increases in line with inflation or as a proportion of the **member's** earnings, the initial cost of **risk benefits** should be the latest known cost increased for the appropriate period at the rate specified in C.2.7 or C.2.8 respectively.
- B.6.3 If neither paragraph B.6.1 nor paragraph B.6.2 applies, the initial cost of **risk benefits** should be the last known annual amount.
- B.6.4 If the last known cost of **risk benefits** does not relate to a period of 12 months the **provider** must deal with the situation in an appropriate manner.

Subsequent levels of the cost of risk benefits

- B.6.5 If **risk benefits** are determined as a proportion of the **member's** earnings their cost must be assumed to increase at the rate specified in paragraph C.2.8.
- B.6.6 If the cost of **risk benefits** increases in line with inflation it must be assumed to increase at the rate specified in paragraph C.2.7.
- B.6.7 If the cost of **risk benefits** increases as the **member** ages then **providers** must deal with the situation in an appropriate manner.
- B.6.8 If none of paragraphs B.6.5 to B.6.7 applies, the cost of **risk benefits** must be assumed to increase at the rate specified in paragraph C.2.7.

B.7 ANNUITY RATE

- B.7.1 The **annuity rate** is the value of an annual pension of £1 at **retirement date** calculated using the assumptions in Part C.

B.8 GENERAL CONSIDERATIONS

- B.8.1 Where a **provider** assumes a **lump sum** will be paid at **retirement date**, that **lump sum** should be disclosed in today's (inflation adjusted) terms in the **statutory illustration statement**.
- B.8.2 Appropriate adjustments to the calculations must be made if a **scheme year** is not a period of 12 months. Where annual rates are specified in Part C, the equivalent rates for part of a year should be calculated as the appropriate root of the annual rate, not as an arithmetic proportion. For example, the monthly rate equivalent to 2.5% per annum is approximately 0.00206 $(1.025^{(1/12)}-1)$ and not 0.00208 $(0.025/12)$.
- B.8.3 If it is necessary to calculate the period between two dates, the period must be calculated to an exact number of months or more accurately (for example, to the exact number of days). Similarly, if contributions will continue for part of a year, **statutory illustrations** must include an allowance for such contributions for an exact number of months or more accurately.
- B.8.4 The **pension** illustrated may be shown as a weekly, monthly or annual amount.

C ASSUMPTIONS

C.1 INTRODUCTION

- C.1.1 This Part sets out the actuarial assumptions which must be used in providing **statutory illustrations**.

C.2 ACCUMULATION

- C.2.1 This section specifies the assumptions to be used in determining the **net real accumulated fund**.

Mortality

- C.2.2 No allowance is to be made for mortality before retirement (other than in the calculation of the cost of any **risk benefits**).

Accumulation rate

- C.2.3 In determining the **accumulation rate** the **provider** must take account of the expected returns from the current and anticipated future investment strategy of the **member's** funds over the period to the **retirement date**.

- C.2.4 The **accumulation rate** must be based on expected returns before the deduction of expenses or charges.

- C.2.5 The **accumulation rate** must be justifiable and consistent with the **inflation rate** assumption specified in paragraph C.2.7.

- C.2.6 The method used to determine the **accumulation rate** in accordance with paragraphs C.2.3 to C.2.5 should be consistent from year to year, and the rationale used should be documented and made available to members on request.

Rates of increase in inflation and earnings

- C.2.7 The **inflation rate** must be 2.5% per annum compound.

- C.2.8 Earnings and any earnings-related indices must be assumed to increase at 2.5% per annum compound.

Expenses

C.2.9 If the terms of a **scheme** require future charges or expenses to be deducted from **future contributions** or the **current fund**, then:

- for **schemes** subject to the FCA Rules on projections, charges or expenses must be assumed to be an amount not less than those required by the FCA Rules;
- for other **schemes**, amounts no less than the actual charges or expenses of the **member's** arrangement must be assumed. The assumed charges or expenses should include the costs of investment management, but exclude any dealing costs for the underlying portfolio and any routine management and servicing costs of existing property investments.

C.2.10 Future charges or expenses which are related to **future contributions** (such as those which are calculated as a percentage of contributions) must be calculated by reference to the **future contributions**.

C.2.11 Future charges or expenses up to **retirement date** which are related to the **scheme's** assets must be calculated using a projected fund as at each annual anniversary of the **illustration date** or, more frequently, from the **illustration date** to the **retirement date**. The projected funds must be based on the **current fund** and allow for any **future contributions**, tax relief, the cost of **risk benefits** and relevant charges or expenses.

C.2.12 If future charges or expenses are not known and cannot reasonably be obtained or estimated, the approach set out in paragraph C.2.11 must be used with charges or expenses of 1% per annum of the projected fund at the start of each year.

C.2.13 Future charges or expenses which relate to the **member's** arrangement and which are not deducted from **future contributions** or from the underlying assets must be ignored for the production of the **statutory illustration**.

Tax relief on contributions

C.2.14 Tax relief must be assumed to be at the rate at which it is expected to be reclaimed. The expected rate should allow for any known future changes.

C.3 ANNUITY

Lump sum at retirement

C.3.1 The **lump sum** assumed to be paid at retirement date should not normally exceed the amount permitted by the **scheme** rules or legislation. Where the **lump sum** assumed is greater than 25% of the **nominal accumulated fund** or is greater than the tax-free lump sum permitted by the **scheme** rules or legislation, the **provider** should document the rationale for doing so.

Interest rates to be used in calculating annuity rates

C.3.2 The rate of interest must be determined as at each 15 February. This rate must be used for all **statutory illustrations** with **illustration dates** occurring in the following financial year (6 April to 5 April). If the information on which the rate of interest is to be based is not published for 15 February, **providers** must use the relevant information for the previous business day for which such information is published.

C.3.3 When it is assumed that the **statutory illustration** increases in payment at a rate linked to inflation, the **annuity rate** must be calculated using annual interest equal to 50% of the sum of the FTSE Actuaries' Government Securities Index-Linked Real Yields over 5 years assuming:

- 5% inflation; and
- 0% inflation

minus 0.5%.

C.3.4 When it is assumed that the **statutory illustration** does not increase in payment, the **annuity rate** must be calculated using the FTSE Actuaries' Government 15 year Fixed Interest Yield Index except that at the **provider's** discretion the annuity rate may be calculated using the yield set out in paragraph C.3.3 plus 3.5%.

C.3.5 The interest rate (before the addition of 3.5% made in accordance with the exception permitted in paragraph C.3.4) must be rounded to the nearest multiple of 0.2%. Intermediate exact multiples of 0.1% should be rounded down.

C.3.6 Published interest rates must be used without any adjustments (such as to convert the published rate from a convertible half-yearly rate to an annual rate).

C.3.7 When it is assumed that the **statutory illustration** increases in payment at a rate other than those described in C.3.3 and C.3.4, the **annuity rate** must be determined using an approach consistent with C.3.3 or C.3.4.

Expenses

C.3.8 An allowance of 4% of the value of the annuity at retirement must be made for expenses.

Mortality

C.3.9 The mortality of the **member** and the **member's** spouse or civil partner must be based on the year of birth rate derived from the Institute and Faculty of Actuaries' Continuous Mortality Investigation tables ~~PFA08 PCFA00~~ and ~~PMA08 PCMA00~~ and including mortality improvements derived from each of the male and female annual mortality projection models, in equal parts.

C.3.10 For **statutory illustrations** produced with **illustration dates** in the range 6 April 20YY to 5 April (20YY+1), mortality improvements must be derived from the CMI mortality projection models¹ CMI_(20YY-24)_F[1.25%] and CMI_(20YY-24)_M[1.25%].

¹ The model can be found at: <https://www.actuaries.org.uk/learn-and-develop/continuous-mortality-investigation>

CMI_20NN_x [a%] refers to the model published by the CMI where:

- 20NN is the version number of the model reflecting the year of its publication;
- x is the gender and is either M (male) or F (female); and
- a% is the long-term rate of mortality improvement.

C.3.11 For example, **statutory illustrations** produced with an **illustration date** of 6 April 201~~7~~⁵ the mortality assumptions must be based on

50% of ~~PMA08 PCMA00~~ including improvements based on
CMI_(201~~5~~⁴)_M[1.25%] +

50% of ~~PFA08 PCFA00~~ including improvements based on
CMI_(201~~5~~⁴)_F[1.25%].

C.3.12 These rates of mortality improvement apply to both the **member** and the **member's** spouse or civil partner.

Spouse's or civil partner's pension

C.3.13 Where illustrated, the amount of any spouse's or civil partner's pension should not exceed the amount permitted under the **scheme** rules or legislation.

Age difference between member and spouse or civil partner

C.3.14 It must be assumed that males are three years older than female spouses and that spouses or civil partners of the same gender are the same age as each other, except that:

- at the **provider's** discretion the **member** may specify the spouse's or civil partner's age to be used;
- the spouse's or civil partner's age shown in the **provider's** records may be used.

Guaranteed annuity terms

C.3.15 Account may be taken of guaranteed annuity terms which produce a higher amount of initial pension as at the **retirement date**, or a higher amount of pension in a subsequent year, than would be produced using the assumptions in AS TM1. Where account is taken of guaranteed annuity terms, this should be disclosed alongside the **statutory illustration**.

Payment frequency and format

C.3.16 When calculating the **annuity rate**, **providers** may allow for benefits, other than a spouse's or civil partner's pension, payable on the death of the **member** after the pension commences (such as the payment of the balance of five years' payments on death within five years after retirement).

C.3.17 The pension illustrated must be assumed to be payable monthly in advance and when it is assumed that the statutory illustration increases in payment, those increases are assumed to apply annually. Pension increases in payment in line with inflation are implicitly allowed for in the rate of interest specified in paragraph C.3.3.

Version	Effective from
1.0	06.04.03
1.1	05.04.05
1.2	01.11.06
Adopted by the FRC on	06.04.07
1.3	06.04.09
1.4	08.02.11
2.0	06.04.12
3.0	06.04.13
4.0	06.04.14
4.1	06.04.15
<u>4.2</u>	<u>06.04.17</u>



Financial Reporting Council

8th Floor
125 London Wall
London
EC2Y 5AS

+44 (0)20 7492 2300

www.frc.org.uk