

IAASB CAG REFERENCE PAPER
IAASB CAG Agenda (September 2007)
Agenda Item K.2
Accounting Estimates – Proposed ISA 540 (Revised and Redrafted) (Mark-up Based on Exposure Draft) – September 2007 IAASB Agenda Item 6-B

PROPOSED INTERNATIONAL STANDARD ON AUDITING 540

(REVISED AND REDRAFTED)

AUDITING ACCOUNTING ESTIMATES, INCLUDING FAIR VALUE ACCOUNTING ESTIMATES, AND RELATED DISCLOSURES

(Effective for audits of financial statements for periods beginning on or after [date])*

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Introduction

Scope of this ISA

1. This International Standard on Auditing (ISA) deals with the auditor's responsibilities regarding accounting estimates, including fair value accounting estimates, and related disclosures in an audit of financial statements. Specifically, it expands on how ISA 315 (Redrafted), "Identifying and Assessing the Risks of Material Misstatement Through Understanding the Entity and Its Environment" and ISA 330 (Redrafted), "The Auditor's Responses to Assessed Risks," and other relevant ISAs, are to be applied in relation to accounting estimates. It also includes requirements and guidance on misstatements of individual accounting estimates, and indicators of possible management bias.

Nature of Accounting Estimates

2. Some financial statement items cannot be measured precisely, but can only be estimated. For purposes of this ISA, such financial statement items are accounting estimates. The nature and reliability of information available to support the making of an accounting estimate varies widely, however, which thereby affects the degree of estimation uncertainty associated with accounting estimates varies widely. The degree of estimation uncertainty it affects, in turn, the risks of material misstatement of accounting estimates, including their susceptibility to unintentional or intentional management bias. Accordingly, this ISA applies to all accounting estimates, including fair value accounting estimates, and disclosures of amounts that involve estimation uncertainty, as well as related explanatory disclosures about accounting estimates. (Ref: Para. A1-A11¹⁰)
3. The measurement objective of accounting estimates can vary depending on the applicable financial reporting framework and the financial item being reported. The measurement objective for some accounting estimates is expressed in terms of to forecast the future outcome of a-one or more transactions, events or conditions giving rise to the need for the accounting estimate. For other accounting estimates, including many fair value accounting estimates, however, the measurement objective is different, expressed in terms of the value of a current transaction or financial statement item based on conditions prevalent at the balance sheet date, such as estimated market price for a particular type of asset or liability. For example, the applicable financial reporting framework may require concept of a fair value measurement based on an ordinarily-assumed ~~ds a~~ hypothetical current transaction between knowledgeable, willing parties (sometimes referred to as "marketplace participants" or equivalent) in an arm's length transaction, rather than the settlement of a transaction at some past or future date.¹ ~~Accordingly, the measurement objective for fair value is ordinarily to estimate the price at which a transaction would have occurred at the measurement date.~~

¹ Different definitions of fair value may exist among financial reporting frameworks.

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4. A difference between the ~~future~~-outcome of an accounting estimate and the amount originally recognized or disclosed in the financial statements does not necessarily represent a misstatement of the financial statements. This is particularly the case for fair value accounting estimates, as any observed ~~future~~-outcome is invariably affected by events or conditions subsequent to the date at which the measurement is estimated for purposes of the financial statements.

Effective Date

5. This ISA is effective for audits of financial statements for periods beginning on or after [date].²

Objective

6. The objective of the auditor is to obtain sufficient appropriate audit evidence about whether:
 - (a) ~~the~~ accounting estimates, including fair value accounting estimates, in the financial statements, whether recognized or disclosed, are reasonable; and
 - (b) ~~the~~ related disclosures in the financial statements are adequate, ~~reasonable~~ in the context of the applicable financial reporting framework-. [ISSUE B.I]

Definitions

7. For purposes of the ISAs, the following terms have the meanings attributed below:
 - (a) Accounting estimate – An approximation of a monetary amount in the absence of a precise means of measurement. This term is used for an amount measured at fair value where there is estimation uncertainty, as well as for other amounts that require estimation. Where this ISA addresses only accounting estimates involving measurement at fair value, ~~however~~, the term “fair value accounting estimates” is used.
 - (b) Auditor’s point estimate or auditor’s range – The amount, or range of amounts, respectively, derived from audit evidence ~~(whether obtained by the auditor or provided by a third-party expert engaged by the auditor)~~ for use in evaluating management’s point estimate.
 - (c) Estimation uncertainty – The susceptibility of a financial statement item or disclosure to an inherent lack of precision in its measurement.
 - (d) Management bias – A lack of neutrality by management in the preparation and presentation of information.

² This date will not be earlier than December 15, 2008.

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- (e) Management's point estimate – The amount selected by management for recognition or disclosure in the financial statements as an accounting estimate.
- (f) Outcome of an accounting estimate – The actual monetary amount which results from the resolution of the underlying transaction(s), event(s) or condition(s) addressed by the accounting estimate.
- (gf) Significant assumption(s) – An assumption(s) used in making an accounting estimate where a reasonable variation in the assumption(s) would materially affect the measurement of the accounting estimate.

Requirements

Risk Assessment Procedures and Related Activities

8. When performing risk assessment procedures and related activities to obtain an understanding of the entity and its environment, including the entity's internal control, as required by ISA 315 (Redrafted), the auditor shall obtain an understanding of the following in order to identify and assess the risk of material misstatement for accounting estimates: (Ref: Para. A124)
 - (a) The requirements of the applicable financial reporting framework relevant to accounting estimates and related disclosures. (Ref: Para. A132-A154)
 - (b) How management identifies those transactions, events and conditions that may give rise to the need for accounting estimates in the financial statements. In obtaining this understanding, the auditor shall make inquiries of management about changes in circumstances that may give rise to new, or the need to revise existing, accounting estimates. (Ref: Para. A165-A210)
 - (c) How management makes the accounting estimates i.e., management's process for making the accounting estimates), and an understanding of the data on which they are based, in particular in relation to significant accounting estimates, including: (Ref: Para. A224-A232)
 - (i) The method, including where applicable the model, used in making the accounting estimate; (Ref: Para. A24-A26) **ISSUE A.I**
 - ~~—(ii) Relevant controls~~; (Ref: Para. A273-A284)
 - ~~—(iii) Whether management has used an expert, from either within or outside the entity~~; (Ref: Para. A295-A3026)
 - ~~—(iv) The assumptions underlying the accounting estimates~~; (Ref: Para. A3127-A3628)
 - ~~—(v) Whether, and if so why, there has been a change from the prior period in the methods for making the accounting estimates; and~~ (Ref: Para. A3729)
 - ~~—(vi) Whether, and if so how, management has assessed the effect of estimation uncertainty~~. (Ref: Para. A380)

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9. The auditor shall review the outcome, or re-estimation, of accounting estimates included made in the prior period financial statements. The nature and extent of the auditor's review is determined taking account of the nature of the accounting estimates, and whether the information obtained from the review would be relevant to identifying and assessing risks of material misstatement of accounting estimates made in the current period financial statements. However, the review is not intended to call into question the judgments made in the prior periods that were based on information available at the time. (Ref: Para. A394-A436)

Identifying and Assessing the Risks of Material Misstatement

10. In identifying and assessing the risks of material misstatement, as required by ISA 315 (Redrafted), the auditor shall: ~~(a) Evaluate the degree of estimation uncertainty associated with an accounting estimate, and the susceptibility of the accounting estimate to bias; and~~ (Ref: Para. A4537-A4638)
11. ~~(b) The auditor shall determine whether, in the auditor's judgment, any of those which accounting estimates, whether recognized or disclosed in the financial statements, which have been identified as having high estimation uncertainty and may, therefore, give rise to significant risks.~~ (Ref: Para. A4739-A5143)

Responses to the Assessed Risks of Material Misstatement

12. Based on the assessed risks of material misstatement, the auditor shall determine, to the extent not already done: (Ref: Para. A5244)
- (a) Whether management has appropriately applied the requirements of the applicable financial reporting framework relevant to the accounting estimate; and (Ref: Para. A5345-A5648)
 - (b) Whether the methods for making the accounting estimates are appropriate and have been applied consistently, and whether the basis for changes, if any, in accounting estimates or in the method for making them from the prior period is appropriate in the circumstances. (Ref: Para. A5749-A580)
13. In responding to the assessed risks of material misstatement, as required by ISA 330 (Redrafted), the auditor shall undertake one or more of the following, taking account of the nature of the accounting estimate: (Ref: Para. A592-A61593)
- (a) Determine whether events occurring up to the date of the auditor's report provide audit evidence regarding the accounting estimate. (Ref: Para. A6254-A6759)
 - (b) Test how management made the accounting estimate and the data on which it is based. In doing so, the auditor shall evaluate whether: (Ref: Para. A680-A7062)
 - (i) The method of measurement used is appropriate in the circumstances; and (Ref: Para. A7163-A76465)

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- (ii) The assumptions used by management are reasonable in light of the measurement objectives of the applicable financial reporting framework. (Ref: Para. A~~7766~~-A~~8372~~)
 - (c) Test the operating effectiveness of the controls over how management made the accounting estimate, together with appropriate substantive procedures. (Ref: Para. A~~8473~~-A~~8775~~)
 - (d) Develop a point estimate or a range to evaluate management's point estimate. For this purpose: (Ref: Para. A~~8876~~-A~~9280~~)
 - (i) When the auditor uses assumptions or a method for making a point estimate or a range that differ from management's, the auditor shall obtain an understanding of management's assumptions or method sufficient to establish that the auditor's point estimate or range takes into account relevant variables and to evaluate any significant differences from management's point estimate. (Ref: Para. A~~9384~~)
 - (ii) When the auditor concludes that it is appropriate to use a range, the auditor shall narrow the range, based on audit evidence available, until all outcomes within the range are considered reasonable. (Ref: Para. A~~9482~~-A~~9685~~)
142. When the auditor shall determine that the engagement requires specialized skill or knowledge, the need to use the work of an auditor's expert for the purposes of obtaining sufficient appropriate audit evidence for one or more regarding accounting estimates that give rise to risks of material misstatement, the auditor shall coordinate the nature and extent of procedures to be performed by those having such specialized skill or knowledge.³
(Ref: Para. A~~9755~~-A103) **ISSUE A.II**

Further Substantive Procedures to Respond to Significant Risks

Estimation Uncertainty

154. For accounting estimates that give rise to significant risks, in addition to other substantive procedures performed to meet the requirements of ISA 330 (Redrafted), the auditor shall evaluate the following, to the extent not already done: (Ref: Para. A~~10486~~)
- (a) How management has considered alternative assumptions or outcomes, and why it has rejected them, or how management has otherwise has addressed the effects of estimation uncertainty on the accounting estimate. ~~Where this has not been done by management, the auditor shall inquire of management about how it has addressed the~~

³ ~~The IAASB has a project in progress to revise ISA 620, "Using the Work of an Expert." The IAASB will consider the need for, or modification of the wording of, this requirement as part of the deliberations relating to the future exposure and finalization of proposed revised ISA 620.~~

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~~effects of estimation uncertainty on the accounting estimate, and shall evaluate whether it has been adequately addressed.~~ (Ref: Para. A~~10587~~-A~~10890~~)

(b) Whether the significant assumptions used by management are reasonable. (Ref: Para. A~~1094~~-A~~11092~~)

(c) Where relevant to the reasonableness of the significant assumptions used by management or the appropriate application of the requirements of the applicable financial reporting framework relevant to the accounting estimates, management's intent to carry out specific courses of action and its ability to do so. (Ref: Para. A~~11193~~)

1~~65~~. Where, in the auditor's judgment, management has not adequately addressed the effects of estimation uncertainty on the accounting estimates that give rise to significant risks, the auditor shall consider whether it is necessary to develop a range, to the extent not already done, with which to evaluate the reasonableness of the accounting estimate. (Ref: Para. A~~11294~~-A~~11395~~)

Recognition and Measurement Criteria

1~~76~~. For accounting estimates that give rise to significant risks, the auditor shall obtain sufficient appropriate audit evidence about ~~whether~~ whether management's decision to:

(a) Management's decision to recognize, or to not recognize, the accounting estimates in the financial statements; ~~and/or~~ (Ref: Para. A~~11496~~-A~~11597~~)

(b) ~~use fair value as~~ The selected measurement basis for the accounting estimates, (Ref: Para. A~~11698~~)

~~are~~ is in accordance with the requirements of the applicable financial reporting framework.

Evaluating the Reasonableness of the Accounting Estimates ~~and Related Disclosures~~, and Determining Misstatements

18. The auditor shall evaluate, based on the audit evidence, whether the accounting estimates ~~and related disclosures~~ in the financial statements are either reasonable in the context of the applicable financial reporting framework, or are misstated. (Ref: Para. A1~~1702~~-A~~12106~~)

Disclosures Related to Accounting Estimates [ISSUE B.I]

19. The auditor shall obtain sufficient appropriate audit evidence about whether the disclosures in the financial statement related to accounting estimates are in accordance with the requirements of the applicable financial reporting framework. (Ref: Para. A122)

~~Disclosures of Estimation Uncertainty~~

20~~47~~. For accounting estimates that give rise to significant risks, the auditor shall also evaluate the adequacy of the disclosure of their estimation uncertainty in the financial statements in the context of the applicable financial reporting framework. (Ref: Para. A~~12399~~-A~~12504~~)

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Indicators of Possible Management Bias

219. The auditor shall review ~~determine~~ the judgments and decisions made by management in the making of accounting estimates to identify whether there are indicators of possible management bias ~~in the making of accounting estimates~~. Indicators of possible management bias do not themselves constitute misstatements for the purposes of drawing conclusions on the reasonableness of individual accounting estimates. (Ref: Para. A12607-A12708)

Written Representations

220. The auditor shall obtain written representations from management whether management believes regarding the reasonableness of significant assumptions used by it in making accounting estimates are reasonable. (Ref: Para. A12809-A12940)

Documentation

231. The audit documentation shall include:
- (a) The basis for the auditor's conclusions about the reasonableness of accounting estimates that give rise to significant risks; and
 - (b) Indicators of possible management bias, if any. (Ref: Para. A13044)

Application and Other Explanatory Material

Nature of Accounting Estimates (Ref: Para. 2)

- A1. Because of the uncertainties inherent in business activities, some financial statement items can only be estimated. Further, the specific characteristics of an asset, liability or component of equity, or the basis of or method of measurement prescribed by the financial reporting framework, may give rise to the need to estimate a financial statement item. Some financial reporting frameworks prescribe specific methods of measurement and the disclosures that are required to be made in the financial statements, while other financial reporting frameworks are less specific. In addition, the financial reporting framework may describe characteristics that different fair value accounting estimates may have. The Appendix to this ISA discusses fair value measurements and disclosures under different financial reporting frameworks.
- A2. Some accounting estimates involve relatively low estimation uncertainty and may give rise to lower risks of material misstatements, for example:
- Accounting estimates arising in entities that engage in business activities that are not complex.

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- Accounting estimates that are frequently made and updated because they relate to routine transactions.
- Accounting estimates derived from data that is readily available, such as published interest rate data or exchange-traded prices of securities. Such data may be referred to as “observable” in the context of a fair value accounting estimate. [ISSUE A.I]
- Fair value accounting estimates where the method of measurement prescribed by the applicable financial reporting framework is simple and applied easily to the asset or liability requiring measurement at fair value.
- Fair value accounting estimates where the model used to measure the accounting estimate is well-known or generally accepted, provided that the assumptions or inputs to the model are observable. [ISSUE A.I]

A3. For some accounting estimates, however, there may be relatively high estimation uncertainty, particularly where they are based on significant assumptions, for example:

- Accounting estimates relating to the outcome of litigation.
- Fair value accounting estimates for derivative financial instruments not publicly traded ~~or exchanged~~.
- Fair values accounting estimates for which a highly specialized entity-developed model is used or for which there are assumptions or inputs that cannot be observed in the marketplace. [ISSUE A.I]

A4. The degree of estimation uncertainty varies based on the nature of the accounting estimate, the extent to which there is a generally accepted method or model used to make the accounting estimate, and the subjectivity of the assumptions used to make the accounting estimate. In some cases, estimation uncertainty associated with the sensitivity of an accounting estimate to changes in assumptions may be so great that the recognition criteria in the applicable financial reporting framework is not met and a reliable the accounting estimate cannot be made.

A54. Additional examples of situations where accounting estimates, other than fair value accounting estimates, may be required include:

- Allowance for doubtful accounts.;
- Inventory obsolescence.;
- Warranty obligations.;
- Depreciation method or asset useful life.;
- Outcome of long term contracts.;
- Costs arising from litigation settlements and judgments.

A65. Additional examples of situations where fair value accounting estimates may be required include:

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- Complex financial instruments which are not traded in an active and open market.
- [Share-based payments.](#)
- Property or equipment held for disposal.
- Certain assets or liabilities acquired in a business combination, [including goodwill and intangible assets.](#)
- Transactions involving the exchange of assets or liabilities between independent parties without monetary consideration, for example, a non-monetary exchange of plant facilities in different lines of business.

- A76. Not all financial statement items requiring measurement at fair value, however, involve estimation uncertainty. For example, this may be the case for some financial statement items where there is an active and open market that provides readily available and reliable information on the prices at which actual exchanges occur, in which case the existence of published price quotations ordinarily is the best audit evidence of fair value. [Even in this situation, However,](#) estimation uncertainty may [still](#) exist ~~even in such circumstance~~, for example where valuation of quoted securities held for investment purposes at the listed market price requires adjustment under the entity's applicable financial reporting framework if the holding is significantly large in size or is subject to restrictions in marketability, where only bid and asked prices are available, or where there are multiple sources of quoted market prices.
- A87. Estimation involves judgments based on information available at the time of preparation of the financial statements. For many accounting estimates, these include judgments about assumptions relating to matters that are uncertain at the time of estimation. [The auditor is not responsible for predicting future conditions, transactions or events that, if known at the time of the audit, might have significantly affected management's actions or the assumptions used by management.](#)

Management Bias

- A98. Financial reporting frameworks often call for neutrality, that is, freedom from bias. Accounting estimates are imprecise, however, and ~~are~~ [can be](#) influenced by management judgment. Such judgment may involve unintentional or intentional management bias as a result of motivation to achieve a desired result. The susceptibility of an accounting estimate to management bias increases with the degree of subjectivity of the decisions involved in making the accounting estimate. Unintentional management bias and the potential for intentional management bias are inherent in subjective decisions that are often required in making an accounting estimate. For continuing audits, indicators of possible management bias identified during the audit of the preceding periods influence the planning and risk identification and assessment activities of the auditor in the current period.
- A109. Management bias can be difficult to detect at an account level. It may only be identified when considered in the aggregate of groups of accounting estimates or all accounting

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estimates, or when observed over a number of accounting periods. Although some form of management bias is inherent in subjective decisions, in making such judgments there may be no intention by management to mislead the users of financial statements. Where, however, there is intention to mislead, management bias is fraudulent in nature. The auditor's review of accounting estimates for bias and evaluation of whether the circumstances producing the bias, if any, represent a risk of material misstatement, carried out in accordance with ISA 240 (Redrafted), "The Auditor's Responsibilities Relating to Fraud in an Audit of Financial Statements" would be relevant in this respect ~~establishes requirements and provides guidance on the auditor's responsibilities relating to fraud in an audit of financial statements.~~

Considerations Specific to Public Sector Entities

- A110. Public sector entities may have significant holdings of specialized assets for which there are no readily available and reliable sources of information for purposes of measurement at fair value or other current value bases, or a combination of both. Often specialized assets held do not generate cash flows and do not have an active market. Measurement at fair value therefore ordinarily requires estimation and may be complex, and in some rare cases may not be possible at all.

Risk Assessment Procedures and Related Activities (Ref: Para. 8)

- A124. The risk assessment procedures and related activities required by paragraph 8 of this ISA assist the auditor in developing an expectation of the nature and type of accounting estimates that an entity may have. The expectation is used for purposes of identifying and assessing risks, and planning the nature, timing and extent of further audit procedures.

Obtaining an Understanding of the Requirements of the Applicable Financial Reporting Framework (Ref: Para. 8(a))

- A132. Obtaining an understanding of the requirements of the applicable financial reporting framework assists the auditor in determining whether it, for example:
- Prescribes certain conditions for the recognition,⁴³ or methods for the measurement, of accounting estimates.
 - Specifies certain conditions that permit or require measurement at a fair value, for example, by referring to management's intentions to carry out certain courses of action with respect to an asset or liability as criteria for determining whether to use a fair value measurement basis or how it is to be applied.
 - Specifies required or permitted disclosures.

³⁴ Most financial reporting frameworks require incorporation in the balance sheet or income statement of items that satisfy their criteria for recognition. Disclosure of accounting policies or adding notes to the financial statements does not rectify a failure to recognize such items, including accounting estimates.

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Obtaining this understanding⁴⁵ It also provides the auditor with a basis for discussion with management about how management⁴⁵ has applied those requirements relevant to the accounting estimate, and the auditor's determination of whether they have been applied appropriately.

- A1~~43~~. ~~In some cases, management may be able to make a point estimate directly. In other cases, management may be able to make a reliable point estimate only after considering alternative assumptions or outcomes from which it is able to determine a point estimate.~~ Financial reporting frameworks may, or may not, provide guidance for management on determining point estimates where alternatives exist. Some financial reporting frameworks, for example, require that the point estimate selected be the alternative that reflects management's judgment of the most likely outcome.⁵⁴ Others may require, for example, that the point estimate used for fair value accounting estimates be based on a discounted probability-weighted expected value. In some cases, management may be able to make a point estimate directly. In other cases, management may be able to make a reliable point estimate only after considering alternative assumptions or outcomes from which it is able to determine a point estimate.

- A1~~54~~. Financial reporting frameworks may require the disclosure of information concerning the significant assumptions to which the accounting estimate is particularly sensitive. Furthermore, where there is a high degree of estimation uncertainty, some financial reporting frameworks do not permit an accounting estimate to be recognized in the financial statements, but certain disclosures may be required in the notes to the financial statements.

Obtaining an Understanding of How Management Identifies the Need for Accounting Estimates

(Ref: Para. 8(b))

- A1~~65~~. In preparing the financial statements, management has the responsibility to determine whether a transaction, event or condition gives rise to the need to make an accounting estimate, and that all necessary accounting estimates have been recognized, measured and disclosed in the financial statements in accordance with the applicable financial reporting framework.
- A1~~76~~. Management's identification of transactions, events and conditions that give rise to the need for accounting estimates is likely to be based on:
- ~~Its~~ Management's knowledge of the entity's business and the industry in which it operates.
 - Management's~~Its~~ knowledge of the implementation of business strategies in the current period.

⁴⁵ Different financial reporting frameworks may use different terminology to describe point estimates determined in this way.

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- Where applicable, ~~its~~management's cumulative experience of preparing the entity's financial statements in prior periods.

In such cases, the auditor may obtain an understanding of how management identifies the need for accounting estimates through, for example, inquiry of management. In other cases, where management's process may be more structured, the auditor may perform risk assessment procedures directed at the methods and practices followed by management for periodically reviewing the circumstances that give rise to the accounting estimates and re-estimating the accounting estimates as necessary. The completeness of accounting estimates is often a primary an important consideration of the auditor, particularly accounting estimates relating to liabilities.

A187. ~~The completeness of accounting estimates is often a primary consideration of the auditor, particularly accounting estimates relating to liabilities.~~ The auditor's understanding of the entity and its environment obtained during the performance of risk assessment procedures, together with other audit evidence obtained during the course of the audit, assist the auditor in identifying circumstances, or changes in circumstances, that may give rise to the need for an accounting estimate.

A198. Inquiries of management about changes in circumstances may include, for example, inquiries about whether:

- The entity has engaged in new types of transactions that may give rise to accounting estimates.
- Terms of transactions that gave rise to accounting estimates have changed.
- Accounting policies relating to accounting estimates ~~The requirements of the applicable financial reporting framework~~ have changed, as a result of changes to the requirements of the applicable financial reporting framework or otherwise.
- Regulatory or other changes outside the control of management have occurred that may require management to revise, or make new, accounting estimates.
- New conditions or events have occurred that may give rise to the need for new or revised accounting estimates.

A2049. During the audit, the auditor may identify transactions, events and conditions that give rise to the need for accounting estimates that management failed to identify. ISA 315 (Redrafted) provides guidance when the auditor identifies a material weakness in the entity's risk assessment processes.

Considerations Specific to Smaller Entities

A210. ~~For smaller entities, Obtaining this understanding~~ for smaller entities is often ~~straightforward less complex because the range of as their~~ business activities ~~of those entities is are~~ often ~~more~~ limited ~~than that of a larger entity~~ and ~~the~~ transactions ~~are often~~ less complex. Further, often a single person, for example the owner-manager, ~~determines~~

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identifies the need to make an accounting estimate and the auditor may focus inquiries accordingly.

Obtaining an Understanding of How Management Makes the Accounting Estimates (Ref: Para. 8(c))

A224. Management is responsible for establishing financial reporting processes for making accounting estimates, including adequate internal control. Such processes include the following:

- Selecting appropriate accounting policies and prescribing estimation processes, including appropriate estimation or valuation methods, including, where applicable, models.
- Developing or identifying relevant data and assumptions that affect accounting estimates.
- Periodically reviewing the circumstances that give rise to the accounting estimates and re-estimating the accounting estimates as necessary.

A232. Matters that the auditor may consider in obtaining an understanding of how management makes the accounting estimates include, for example:

- The types of accounts or transactions to which the accounting estimates relate (for example, whether the accounting estimates arise from the recording of routine and recurring transactions or whether they arise from non-recurring or unusual transactions).
- Whether, and if so how, management has used recognized measurement techniques for making particular accounting estimates.
- Whether the accounting estimates were made based on data available at an interim date and if so, whether and how management has taken into account the effect of events, transactions and changes in circumstances occurring between that date and the period end.

Method of Measurement, Including the Use of Models (Ref: Para. 8(c)(i))

A24. In some cases, the applicable financial reporting framework may prescribe the method of measurement for an accounting estimate, for example a particular model that is to be used in measuring a fair value estimate. In many cases, however, the applicable financial reporting framework does not prescribe the method of measurement, or may specify alternative methods for measurement.

A25. When the applicable financial reporting framework does not prescribe a particular method to be used in the circumstances, matters that the auditor may consider in obtaining an understanding of the method, or where applicable the model, used to make accounting estimates include, for example:

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- How management considered the nature of the asset or liability being estimated when selecting a particular method.
- Whether the entity operates in a particular business, industry or environment in which there are generally accepted methods used to make the particular type of accounting estimate.

A26. There may be greater risks of material misstatement, for example, in cases when management has internally developed a model to be used to make the accounting estimate or is departing from a generally accepted method in a particular industry or environment.

[ISSUE A.I]

Relevant Controls (Ref: Para. 8(c)(ii)) **[ISSUE A.I]**

A273. Matters that the auditor may consider in obtaining an understanding of relevant controls include, for example,

~~—~~the experience and competence of those who make the accounting estimates, and controls related to:-

- How management determines the completeness, relevance and accuracy of the data used to develop accounting estimates, and the controls over that data.
- ~~The controls over~~ The review and approval of accounting estimates, including the assumptions or inputs used in their development, by appropriate levels of management and, where appropriate, those charged with governance.

~~The controls over data:~~

- ~~and~~ The segregation of duties between those committing the entity to the underlying transactions and those responsible for making the accounting estimates, including whether the assignment of responsibilities appropriately takes account of the nature of the entity and its products or services (for example, in the case of a large financial institution, relevant segregation of duties may include an independent function responsible for estimation and validation of fair value pricing of the entity's proprietary financial products staffed by individuals whose remuneration is not tied to such products).

A284. Other controls may be relevant to making the accounting estimates depending on the circumstances. For example, ~~if in some cases~~ the entity ~~may~~ uses ~~a~~ specific models for making ~~an~~ accounting estimates ~~and, management may~~ put into place specific policies and procedures ~~processes~~ around such use of that models, ~~thereby making certain controls and control activities over that process particularly relevant~~ Relevant controls may include, for example, those established over:

- The design and development, or selection, of a particular model for a particular purpose.

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- ~~consistency of~~ The use of the model.
- The maintenance and periodic validation of the integrity of the model.

Use of Experts (Ref: Para. 8(c)(iii))

A295. Management may have, or the entity may employ individuals with, the experience and competence necessary to make the required point estimates. In some cases, however, management may need to engage an expert to make, or assist in making, them. This need may arise because of, for example:

- The complexity of the matter requiring estimation, for example the measurement of mineral or hydrocarbon reserves in extractive industries.
- The complexity of the relevant requirements of the applicable financial reporting framework, as may be the case in certain measurements at fair value.
- The unusual or infrequent nature of the condition, transaction or event requiring an accounting estimate.

Considerations specific to smaller entities

A3026. In smaller entities, the circumstances ~~that give rise to the need for~~ requiring an accounting estimate often are such that the owner-manager is capable of making the required point estimate. In some cases, however, an expert ~~is will be needed to make, or assist in making, it, and the owner manager may not have the experience or competence necessary to identify this need.~~ Discussion with the owner-manager early in the audit process about the nature of ~~the any~~ accounting estimates, the completeness of the required accounting estimates, and the adequacy of the estimating process ~~to make them~~ may assist the owner-manager in determining the need to use an expert.

Assumptions (Ref: Para. 8(c)(iv~~iii~~))

A3127. Assumptions are integral components of accounting estimates. Matters that the auditor may consider in obtaining an understanding of the assumptions underlying the accounting estimates include, for example:

- The nature of the assumptions, including which of the assumptions are likely to be significant assumptions.
- How management assesses whether the assumptions are relevant and complete (i.e., that all relevant variables have been taken into account).
- Where applicable, how management determines that the assumptions used are internally consistent.
- Whether the assumptions relate to matters within the control of management (for example, assumptions about the maintenance programs that may affect the estimation

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of an asset's useful life), and how they conform to the entity's business plans and the external environment, or to matters that are outside its control (for example, assumptions about interest rates, mortality rates, potential judicial or regulatory actions, or the variability and the timing of future cash flows).

- The nature and extent of documentation, if any, supporting the assumptions.

Assumptions may be made or identified by an expert to assist management in making the accounting estimates. Such assumptions, when used by management, become management's assumptions.

A32. In some case, assumptions may be referred to as inputs, for example where management uses a model to make an accounting estimate, though the term inputs may also be used refer to the underlying data to which specific assumptions are applied. [ISSUE A.I]

A3367. Management may support – Assumptions ~~may be supported by with~~ differenting types of information drawn ~~evidence~~ from internal and external sources, the availability and reliability of which will vary depending on the circumstances. In some cases, an assumption may be based on available external sources, for example published interest rate or other statistical data, or the entity may base an assumption on historical information or previous conditions experienced by the entity. In other cases, an assumption may be more subjective, for example where the entity has no prior experience or external sources do not exist. This variability applies to all accounting estimates that involve estimation uncertainty, but different terminology may be used to describe fair value accounting estimates. Further, for fair value accounting estimates, management is generally faced with a range of different assumptions used by different marketplace participants. In some cases, assumptions may be made or identified by an expert to assist management in making the accounting estimates. Such assumptions, when used by management, become management's assumptions. [ISSUE A.I]

A3428. With respect to fair value accounting estimates, the nature of the assumptions used by management may differ from those used in other accounting estimates. The difference relates to the measurement objective of fair value accounting estimates, and thereby the need for management to use assumptions that reflect, or are consistent with, those assumptions which knowledgeable, willing arm's length parties (sometimes referred to as "marketplace participants" or equivalent) would use in determining fair value when exchanging an asset or settling a liability. Specific assumptions will also vary with the characteristics of the asset or liability being valued and the valuation method used (for example, a market approach, or an income approach). [ISSUE A.I]

A35. With respect to fair value accounting estimates, assumptions or inputs vary in terms of their source and bases, as follows:

- (i) Those that reflect that which marketplace participants would use in pricing an asset or liability developed based on market data obtained from sources independent of the

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reporting entity (sometimes referred to as “observable inputs” or equivalent).
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- (ii) Those that reflect the entity’s own assumptions about which marketplace participants would use in pricing the asset or liability developed based on the best information available in the circumstances (sometimes referred to as “unobservable inputs” or equivalent). **[ISSUE A.I]**

In practice, however, the distinction between (i) and (ii) is not always apparent. Further, it may be necessary for management to select from a number of different assumptions used by different marketplace participants.

- A36. The extent of subjectivity, such as whether an assumption or input is observable, influences the degree of estimation uncertainty and thereby the auditor’s assessment of the risks of material misstatement for a particular accounting estimate.

Changes in Methods for Making Accounting Estimates (Ref: Para. 8(c)(iv))

- A3729. Once management has selected a specific estimation method, it is important that management considers changes in the environment or circumstances affecting the entity or changes in the requirements of the applicable financial reporting framework relevant to accounting estimates. If management has changed the method for making an accounting estimate, it is important that management can demonstrate that the new method provides a more appropriate basis of measurement, or that the change is supported by a change in the requirements of the applicable financial reporting framework, or a change in circumstances. If management has not changed the method for making an accounting estimate, the auditor may consider whether the method remains appropriate.

Estimation Uncertainty (Ref: Para. 8(c)(vi))

- A380. Matters that the auditor may consider in obtaining an understanding of whether, and if so how, management has assessed the effect of estimation uncertainty include, for example:
- Whether, and if so how, management has considered alternative assumptions or outcomes by, for example, performing a sensitivity analysis to determine the effect of changes in the assumptions on an accounting estimate.
 - How management determines the accounting estimate when analysis indicates a number of outcome scenarios.
 - Whether management monitors the outcome of accounting estimates made in the prior period, and whether management has appropriately responded to the outcome of that monitoring procedure.

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Reviewing the Outcome or Re-Estimation of Prior Period Accounting Estimates (Ref: Para. 9)

A394. The outcome of an accounting estimate will often differ from the accounting estimate recognized in the prior period financial statements. By performing risk assessment procedures to identify and understand the reasons for such differences, the auditor may obtain:

- Information regarding the effectiveness of management's prior period estimation process, from which the auditor can judge the likely effectiveness of management's current process.
- Audit evidence that is pertinent to the re-estimation, in the current period, of prior period accounting estimates.
- Audit evidence of matters, such as estimation uncertainty, that may be required to be disclosed in the financial statements.

A4032. The review of the outcome or re-estimation of prior period accounting estimates may also assist the auditor in identifying circumstances or conditions that increase the susceptibility of accounting estimates to, or indicate the presence of, possible management bias. The auditor's attitude of professional skepticism assists in identifying such circumstances or conditions and in determining the nature, timing and extent of further audit procedures. ~~However the review is not intended to call into question the judgments made in the prior year that were based on information available at the time.~~

A4133. ~~The nature and extent of the auditor's review depend on the nature of the accounting estimates, and whether the information obtained from the review would be relevant to identifying and assessing risks of material misstatement. For example, t~~The auditor may judge that a more detailed review is required for those accounting estimates that were identified during the prior period audit as having high estimation uncertainty, or for those accounting estimates that have changed significantly from the prior period. On the other hand, for example, for accounting estimates that arise from the recording of routine and recurring transactions, the auditor may judge that the application of analytical procedures as a risk assessment procedure is sufficient for purposes of the understanding. ~~review.~~

A4234. For fair value accounting estimates and other accounting estimates based on current conditions at the measurement date, more variation may exist between the fair value amount recognized in the prior period financial statements and the outcome or the re-estimated amount in the current period financial statements. This is because the measurement objective for such accounting estimates deals with perceptions about value at a point in time, which may change significantly and rapidly as the environment in which the entity operates changes. The auditor may therefore focus the review on obtaining information that would be relevant to identifying and assessing risks of material misstatement. For example, in some cases obtaining an understanding of changes in marketplace participant assumptions which affected the outcome of a prior period fair value accounting estimate may be unlikely to provide relevant information for audit

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purposes. If so, then the auditor's consideration of the outcome of prior period fair value accounting estimates may be directed more towards understanding the effectiveness of management's prior estimation process, from which the auditor can judge the likely effectiveness of management's current process; for prior period fair value accounting estimates that are re-estimated, the auditor may direct the review towards determining whether the method of measurement has been applied consistently.

A4335. Because of the nature of the measurement objectives of accounting estimates, a difference between the outcome of an accounting estimate and the amount recognized in the prior period financial statements does not necessarily represent a misstatement of the prior period financial statements. However, it may do so if, for example, the difference arises from information that was available to management when the prior period's financial statements were finalized, or that could reasonably be expected to have been obtained and taken into account in preparing and presenting those financial statements. Many financial reporting frameworks contain guidance on distinguishing between changes in accounting estimates that constitute misstatements and changes that do not, and the accounting treatment required to be followed.

A4436. A retrospective review is also required by ISA 240 (Redrafted). That review is conducted as part of the requirement for the auditor to design and perform procedures to review accounting estimates for biases that could represent a risk of material misstatement due to fraud, in response to the risks of management override of controls. However, as a practical matter, the auditor's review of the outcome, or re-estimation, of accounting estimates made in the prior period financial statements as a risk assessment procedure in accordance with this ISA may be carried out in conjunction with the review required by ISA 240 (Redrafted).

Identifying and Assessing the Risks of Material Misstatement

Estimation Uncertainty (Ref: Para. 10~~(a)~~)

A4537. The degree of estimation uncertainty associated with an accounting estimate, ~~and its susceptibility to bias~~, may be influenced by factors such as:

(+)• The extent to which the accounting estimate depends on judgment.

- The degree of sensitivity of the accounting estimate to changes in assumptions.
- The existence of recognized measurement techniques that may mitigate the estimation uncertainty (though the subjectivity of the assumptions used as inputs in a recognized measurement technique may nevertheless still give rise to estimation uncertainty).
- The length of the forecast period, and the relevance of data drawn from past events to forecast future events.
- The availability of reliable data from external sources.

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- The extent to which the accounting estimate is based on observable or unobservable inputs.

The degree of estimation uncertainty associated with an accounting estimate may influence the estimate's susceptibility to bias.

A4638. Matters that the auditor considers in assessing the risks of material misstatement may also include:

- The actual or expected magnitude of an accounting estimate.
- The recorded amount of the accounting estimate in relation to the amount expected by the auditor to be recorded.
- Whether management has used an expert in making the accounting estimate.
- The outcome of the review of prior period accounting estimates.

High Estimation Uncertainty and Significant Risks (Ref: Para. 1140(b))

A4739. Examples of accounting estimates that may have high estimation uncertainty include the following:

- Accounting estimates that are highly dependent upon judgment, for example, judgments about the outcome of pending litigation or the amount and timing of future cash flows dependent on uncertain events many years in the future.
- Accounting estimates that are not calculated using recognized measurement techniques.
- Accounting estimates where the results of the auditor's review of the outcome, or re-estimation, of similar accounting estimates made in the prior period financial statements indicate a substantial difference between the original accounting estimate and the actual outcome.

- Fair value accounting estimates for which a highly specialized entity-developed model is used or for which there are no observable inputs. [ISSUE A.I]

A480. A seemingly immaterial accounting estimate may have the potential to result in a material misstatement due to the estimation uncertainty associated with the estimation; that is, the size materiality of the amount recognized or disclosed in the financial statements for an accounting estimate may not be an indicator of its estimation uncertainty.

A494. In some circumstances, the estimation uncertainty is so high that a reasonable accounting estimate cannot be made. The applicable financial reporting framework may, therefore, preclude recognition of the item in the financial statements, or its measurement at fair value. In such cases, the significant risks relate not only to whether an accounting estimate should be recognized, or whether it should be measured at fair value, but also to the adequacy of the disclosures. With respect to such accounting estimates, the applicable

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financial reporting framework may require disclosure of the accounting estimates and the high estimation uncertainty associated with them (see paragraphs A~~12299~~-A~~125404~~).

A~~5042~~. Where the auditor determines that an accounting estimate gives rise to a significant risk, ISA 315 (Redrafted) requires, to the extent not already done, the auditor to evaluate the design of the entity's related controls, including relevant control activities, and to determine whether they have been implemented.

A~~5143~~. In some cases, the estimation uncertainty of an accounting estimate may cast significant doubt about the entity's ability to continue as a going concern. [\[Proposed\]](#) ISA 570 ([Redrafted](#)), "Going Concern" establishes requirements and provides guidance in such circumstances.

Responses to the Assessed Risks of Material Misstatement (Ref: Para. [124](#))

A~~5244~~. ISA 330 (Redrafted) requires the auditor to design and perform audit procedures whose nature, timing, and extent are responsive to the assessed risks of material misstatement in relation to accounting estimates at both the financial statement and assertion levels. Paragraphs A~~5345~~-A~~116404~~ focus on specific responses at the assertion level only.

Application of the Requirements of the Applicable Financial Reporting Framework (Ref: Para. [124](#)(a))

A~~5345~~. Many financial reporting frameworks prescribe certain conditions for the recognition of accounting estimates and specify the methods for making them and required disclosures. Such requirements may be complex and require the application of judgment. Based on the understanding obtained in performing risk assessment procedures, the requirements of the applicable financial reporting framework that may be susceptible to misapplication or differing interpretations become the focus of the auditor's attention.

A~~5446~~. Determining whether management has appropriately applied the requirements of the applicable financial reporting framework may depend, in part, on the auditor's understanding of the entity and its environment. For example, the measurement of the fair value of some items, such as intangible assets acquired in a business combination, may involve special considerations that are affected by the nature of the entity and its operations.

A~~5547~~. In some situations, additional audit procedures, such as the inspection by the auditor of the current physical condition of an asset, may be necessary to determine whether management has appropriately applied the requirements of the applicable financial reporting framework.

A~~5648~~. The application of the requirements of the applicable financial reporting framework requires management to consider changes in the environment or circumstances that affect the entity. For example, the introduction of an active market for a particular class of asset or liability may indicate that the use of discounted cash flows to estimate the fair value of such asset or liability is no longer appropriate.

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Consistency in Methods and Basis for Changes (Ref: Para. 124(b))

A5749. The auditor's consideration of a change in an accounting estimate, or in the method for making it from the prior period, is important because a change that is not based on a change in circumstances or new information is considered arbitrary. Arbitrary changes in an accounting estimate result in inconsistent financial statements over time and may constitute a financial statement misstatement or be an indicator of possible management bias.

A5860. Management often is able to demonstrate good reason for a change in an accounting estimate or the method for making an accounting estimate from one period to another based on a change in circumstances. What constitutes a good reason, and the adequacy of support for management's contention that there has been a change in circumstances that warrants a change in an accounting estimate or the method for making an accounting estimate, is a matter of judgment.

Responses to the Assessed Risks of Material Misstatements (Ref: Para. 13)

A592. The auditor's decision as to which response, individually or in combination, identified in paragraph 13 to undertake, ~~individually or in combination~~, to respond to the risks of material misstatement may be influenced by such matters as:

- The nature of the accounting estimate, including whether it arises from routine or non routine transactions.
- Whether the procedure(s) is expected to effectively provide the auditor with sufficient appropriate audit evidence.
- The assessed risk of material misstatement, including whether the assessed risk is a significant risk.

A60. For example, when evaluating the reasonableness of the allowance for doubtful accounts, an effective procedure for the auditor may be to review subsequent cash collections in combination with other procedures. Where the estimation uncertainty associated with an accounting estimate is high, for example, an accounting estimate based on a proprietary model for which there are unobservable inputs, it may be that a combination of the responses to assessed risks in paragraph 13 of this ISA is necessary in order to obtain sufficient appropriate audit evidence. [ISSUE A.I]

A6153. Additional guidance explaining the circumstances in which each of the responses may be appropriate is provided in paragraphs A6254-A9685.

Events Occurring Up to the Date of the Auditor's Report (Ref: Para. 13(a))

A6254. Determining whether events occurring up to the date of the auditor's report provide audit evidence regarding the accounting estimate may be an appropriate response when such events are expected to:

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~~(ttt)~~• Occur; and

~~(ttt)~~• Provide audit evidence that confirms or contradicts the accounting estimate.

A~~63~~~~55~~. Events occurring up to the date of the auditor's report may provide sufficient appropriate audit evidence such as to remove the need to perform additional procedures on the accounting estimate when such events relate to, and affect, the basis on which an accounting estimate was made. For example, sale of inventory of a superseded product shortly after the period end may provide audit evidence relating to the estimate of the net realizable value of that inventory. In such cases, there may be no need to perform additional audit procedures on the accounting estimate, provided that sufficient appropriate evidence about the events is obtained.

A~~64~~~~56~~. For some accounting estimates, it may be unlikely that events occurring up to the date of the auditor's report will provide audit evidence regarding the accounting estimate. For example, the conditions or events relating to some accounting estimates often develop only over an extended period. Also, because of the measurement objective of fair value accounting estimates, information after the period-end may not reflect the events or conditions existing at the balance sheet date and therefore may not be relevant to the measurement of the fair value accounting estimate. Paragraph 13 identifies other responses to the risks of material misstatement that the auditor may undertake.

A~~65~~~~57~~. In some cases, events that contradict the accounting estimate may be indicative of management having ineffective processes for making accounting estimates, or the existence of management bias in the making of accounting estimates.

A~~66~~~~58~~. Even though the auditor may decide ~~—A decision by the auditor~~ not to undertake this approach, the auditor is expected to ~~does not relieve the auditor from~~ complying with [proposed] ISA 560 (Redrafted), "Subsequent Events." [Proposed] ISA 560 (Redrafted) requires the auditor to perform audit procedures designed to obtain sufficient appropriate audit evidence that all events occurring between the date of the financial statements and the auditor's report that require adjustment of, or disclosure in, the financial statements have been identified and appropriately reflected in the financial statements. Because the measurement of many accounting estimates, other than fair value accounting estimates, usually depends on the outcome of future conditions, transactions or events, the auditor's work under [proposed] ISA 560 (Redrafted) is particularly relevant.

Considerations specific to smaller entities

A~~67~~~~59~~. In ~~the case of~~ some smaller entities, there may be a longer period between the balance sheet date and the date of the auditor's report than in larger entities. Accordingly, the auditor's review of events ~~occurring up to the date of the auditor's report in this period~~ may be a particularly effective response for accounting estimates other than fair value accounting estimates when the outcome is known where there is a long period after the balance sheet date available for review of such events.

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Testing How Management Made the Accounting Estimate (Ref: Para. 13(b))

A680. Testing how management made the accounting estimate and the data on which it is based may be an appropriate response when the accounting estimate is a fair value accounting estimate developed on a model that uses observable and unobservable inputs. It may also be appropriate when, for example:

- The accounting estimate is derived from the routine processing of data by the entity's accounting system.
- The auditor's review of the outcome, or re-estimation, of similar accounting estimates made in the prior period financial statements suggests that management's current period process is likely to be effective.
- The accounting estimate is based on a large population of items of a similar nature that individually are not significant. **ISSUE A.I**

A694. Testing how management made the accounting estimate may involve, for example, the following:

- Testing the extent to which data on which the accounting estimate is based is accurate, complete and relevant, and whether the accounting estimate has been properly determined using such data and management assumptions.
- Considering the source, relevance and reliability of external data or information, including that received from external experts engaged by management to assist in making an accounting estimate.
- Recalculating the accounting estimate, and reviewing information about an accounting estimate for internal consistency.
- Considering management's review and approval processes.
- ~~Considering whether there are any indicators of possible management bias in the making of the accounting estimate (see paragraphs A107–A108).~~

Considerations specific to smaller entities

A7062. In smaller entities, the process for making ~~of~~ accounting estimates ~~by management~~ is likely to be less structured than in larger entities. Smaller entities with active management involvement may not ~~haveneed~~ extensive descriptions of accounting procedures, sophisticated accounting records, or written policies. Even if the entity has no formal established process, it does not mean that management is not able to provide a basis upon which the auditor can test the accounting estimate.

Evaluating the mMethod of measurement (Ref: Para. 13(b)(i))

A7163. ~~In many cases, particularly in relation to measurement at fair value, When~~ the applicable financial reporting framework does may not prescribe the method of measurement, ~~or may~~

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~~specify alternative methods for measurement. In such cases,~~ evaluating whether the method, ~~including where applicable the model, of measurement~~ used is appropriate in the circumstances under the applicable financial reporting framework is usually a matter of professional judgment. **[ISSUE A.I]**

A7263. For this purpose, matters that the auditor may consider include, for example, whether:

- Management's rationale for the method selected is reasonable.
- ~~Whether m~~Management has sufficiently evaluated and appropriately applied the criteria, if any, provided in the applicable financial reporting framework to support the selected method.
- ~~Whether t~~The method is appropriate in the circumstances given the nature of the asset or liability being estimated and the requirements of the applicable financial reporting framework relevant to accounting estimates.
- ~~Whether t~~The method is appropriate in relation to the business, industry and environment in which the entity operates.

A7364. In some cases, management may have determined that different methods result in a range of significantly different estimates. In such cases, obtaining an understanding of how the entity has investigated the reasons for these differences may assist the auditor in evaluating the appropriateness of the method selected.

Evaluating the Use of Models **[ISSUE A.I]**

A7465. In some cases, particularly when ~~making determining~~ fair value accounting estimates, management may make the accounting estimate by using a model. Whether the model used is appropriate in the circumstances may depend on a number of factors, such as the nature of the entity and its environment, including the industry in which it operates, and the specific asset or liability being measured.

A75. The extent to which the following considerations are relevant depends on the circumstances, including whether the model is one that is commercially available for use in a particular sector or industry, or a proprietary model. In some cases, an entity may use an expert to develop and test a model.

A7665. ~~Depending on the circumstances, m~~Matters that the auditor may also consider in testing the model ~~such circumstances~~ include, for example, whether:

~~The model is suitable for the purpose of achieving the measurement objective of the accounting estimate.~~

~~The model is appropriate in relation to the business, industry and environment in which the entity operates~~

- ~~, including and its , required inputs underlying~~ The model is validated prior to usage, with periodic reviews to ensure it is still suitable for its intended use. The entity's validation process may include evaluation of:

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- The model's theoretical soundness and mathematical integrity, including the appropriateness of model parameters.
 - The consistency and completeness of the model's inputs with market practices.
 - The model's output as compared to actual transactions.
- Appropriate change control policies and procedures exist.
- The model is periodically calibrated and tested for validity particularly when inputs are subjective.
- Adjustments are made to the output of the model, including in the case of fair value accounting estimates, whether such adjustments reflect the assumptions marketplace participants would use in similar circumstances.
- The model is adequately documented, including the model's intended applications and limitations and its key parameters, required inputs, and results of any validation analysis performed.
- ~~The model incorporates relevant variables that are appropriately supported.~~
- ~~Where applicable, management periodically calibrates the valuation model and tests it for validity based on observable market data.~~

Assumptions used by management (Ref: Para. 13(b)(ii))

A~~77~~66. The auditor's evaluation of the assumptions used by management is based only on information available to the auditor at the time of the audit. ~~The auditor is not responsible for predicting future conditions, transactions or events that, if known at the time of the audit, might have significantly affected management's actions or the assumptions used by management.~~ Audit procedures dealing with management assumptions are performed in the context of the audit of the entity's financial statements, and not in the context of providing an opinion on assumptions themselves.

A~~78~~68. Matters that the auditor may consider in evaluating the reasonableness of the assumptions used by management include, for example:

- Whether individual assumptions appear reasonable.
- Whether the assumptions are interdependent and internally consistent.
- Whether the assumptions appear reasonable when considered collectively or in conjunction with other assumptions, either for that accounting estimate or for other accounting estimates.
- In the case of fair value accounting estimates, whether the assumptions appropriately reflect observable marketplace assumptions. [ISSUE A.I]

A~~79~~69. The assumptions on which accounting estimates are based may reflect what management expects will be the outcome of specific objectives and strategies. In such cases, the auditor

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may perform audit procedures to evaluate the reasonableness of such assumptions by considering, for example, whether the assumptions are consistent with:

- The general economic environment and the entity's economic circumstances.
- The plans of the entity.
- Assumptions made in prior periods, if relevant.
- Past experience of, or previous conditions experienced by, the entity, to the extent this historical information may be considered representative of future conditions or events.
- Other assumptions used by management relating to the financial statements.

A8074. The reasonableness of the assumptions used may depend on management's intent and ability to carry out certain courses of action ~~relevant to them~~. Management often documents plans and intentions relevant to specific assets or liabilities and the financial reporting framework may require it to do so. Although the extent of audit evidence to be obtained about management's intent and ability is a matter of professional judgment, the auditor's procedures may include the following:

- Considering management's history of carrying out its stated intentions.
- Reviewing written plans and other documentation, including, where applicable, formally approved budgets, authorizations, or minutes, ~~etc~~.
- Considering management's reasons for a particular course of action.
- Considering management's ability to carry out a particular course of action given the entity's economic circumstances, including the implications of its existing commitments.

Certain financial reporting frameworks, however, may not permit management's intentions or plans to be taken into account when making an accounting estimate. This is often the case for fair value accounting estimates because their measurement objective requires that assumptions reflect those used by marketplace participants.

A8170. Matters that the auditor may consider in evaluating the reasonableness of assumptions used by management underlying fair value accounting estimates, in addition to those discussed above where applicable, may include, for example:

1. Whether, and if so how, management has incorporated market-specific inputs into the development of assumptions, where relevant.
2. Whether the assumptions are consistent with observable market conditions, and the characteristics of the asset or liability being measured at fair value.
3. Whether the sources of market-participant assumptions are relevant and reliable, and how management has selected the assumptions to use when a number of different market participant assumptions exist.

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4. Whether, and if so how, management considered assumptions used in, or information about, comparable transactions, assets or liabilities, where appropriate.

A82. Further, fair value accounting estimates may comprise observable inputs as well as unobservable inputs (unobservable inputs are those on which management makes its own judgment about the assumptions which marketplace participants would use). Where fair value accounting estimates are based on unobservable inputs, matters that the auditor may consider include, for example, how management supports:

- The identification of the characteristics of marketplace participants relevant to the accounting estimate.
- Modifications it has made to its own assumptions to reflect its view of assumptions marketplace participants would use.
- Whether it has incorporated the best information available in the circumstances.
- How its assumptions take account of comparable transactions, assets or liabilities, where applicable.

In some cases, it may be necessary for the auditor to perform other audit procedures, for example, examining documentation supporting the review and approval of the accounting estimate by appropriate levels of management, and where appropriate, by those charged with governance. [ISSUE A.I]

A8372. In evaluating the reasonableness of the assumptions supporting an accounting estimate, the auditor may identify one or more significant assumptions. If so, it may indicate that the accounting estimate has high estimation uncertainty and may, therefore, give rise to a significant risk. Additional responses to significant risks are described in paragraphs A10486-A11604.

Testing the Operating Effectiveness of Controls (Ref: Para. 13(c))

A8473. Testing the operating effectiveness of the controls over how management made the accounting estimate may be an appropriate response when management's process has been well-designed, implemented and maintained, for example:

- Controls exist for the review and approval of the accounting estimates by appropriate levels of management and, where appropriate, by those charged with governance.
- The accounting estimate is derived from the routine processing of data by the entity's accounting system.

A8574. Testing the operating effectiveness of the controls is required however, in accordance with ISA 330 (Redrafted), when:

- (a) The auditor's assessment of risks of material misstatement at the assertion level includes an expectation that controls over the process are operating effectively; or

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- (b) Substantive procedures alone do not provide sufficient appropriate audit evidence at the assertion level.

A86. In accordance with ISA 330 (Redrafted), substantive procedures are also required irrespective of the assessed risks of material misstatement. Accordingly, the decision to test the operating effectiveness of controls over how management made the accounting estimate is done in conjunction with one or more of the responses to the assessed risks of material misstatement as set out in paragraph 13.

Considerations specific to smaller entities

A8775. Controls over the process to make an accounting estimate may exist in smaller entities, but the formality with which they operate varies. Further, smaller entities may determine that certain types of controls are not necessary because of active management involvement in the financial reporting process. In the case of very small entities, however, there may not be many controls that the auditor can identify. For this reason, the auditor's response to the assessed risks is likely to be substantive in nature, with the auditor performing one or more of the other responses identified in paragraph 13.

Developing a Point Estimate or Range (Ref: Para. 13(d))

A8876. Developing a point estimate or a range to evaluate management's point estimate may be an appropriate response when, for example:

- An accounting estimate is not derived from the routine processing of data by the accounting system.
- The auditor's review of the outcome, or re-estimation, of similar accounting estimates made in the prior period financial statements suggests that management's current period process is unlikely to be effective.
- The entity's controls within and over management's processes for determining accounting estimates are not well designed or properly implemented.
- Events or transactions between the period end and the date of the auditor's report contradict management's point estimate.
- There are alternative sources of relevant data available to the auditor which can be used in making a point estimate or a range.

A8977. Even when the entity's controls are well designed and properly implemented, developing a point estimate or a range may be an effective or efficient response to the assessed risks. In other situations, the auditor may consider this approach as part of determining whether further procedures are necessary and if so, their nature and extent.

A9078. The approach taken by the auditor in developing either a point estimate or a range may vary based on what is considered most effective in the circumstances. For example, the auditor may initially develop a preliminary point estimate, and then assess its sensitivity to

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changes in assumptions to ascertain a range with which to evaluate management's point estimate. Alternatively, the auditor may begin by developing a range for purposes of determining, where possible, a point estimate.

A9179. The ability of the auditor to make a point estimate, as opposed to a range, depends on several factors, including the model used, the nature and extent of data available and the estimation uncertainty involved with the accounting estimate. Further, the decision to develop a point estimate or range may be influenced by the applicable financial reporting framework, which may prescribe the point estimate that is to be used after consideration of the alternative outcomes and assumptions, or prescribe a specific measurement method (for example, the use of a discounted probability-weighted expected value).

A9289. The auditor may develop a point estimate or a range in a number of ways, for example by:

- Using a model, for example, one that is commercially available for use in a particular sector or industry, or a proprietary or auditor-developed model.
- Further developing management's consideration of alternative assumptions or outcomes, for example by introducing a different set of assumptions.
- Employing or engaging ~~an expert with~~ a person with specialized expertise to develop or execute the model, or to provide relevant assumptions.
- Making reference to other comparable conditions, transactions or events, or, where relevant, markets for comparable assets or liabilities.

Understanding Management's Assumptions or Method (Ref: Para. 13(d)(i))

A9381. When the auditor makes a point estimate or a range and uses assumptions or a method different than those used by management, paragraph 13(d)(i) requires the auditor to obtain a sufficient understanding of the assumptions or method used by management in making the accounting estimate. This understanding provides the auditor with information that may be relevant to the auditor's development of an appropriate point estimate or range for use in evaluating the reasonableness of management's point estimate. Further, it assists the auditor to understand and evaluate any significant differences from management's point estimate. For example, a difference may arise because the auditor used different, but equally valid, assumptions as compared with those used by management. This may reveal that the reliability of an accounting estimate is highly sensitive to certain assumptions and therefore subject to high estimation uncertainty, indicating that the accounting estimate may be a significant risk. Alternatively, a difference may arise as a result of a factual error made by management. Depending on the circumstances, the auditor may find it helpful in drawing conclusions to discuss with management the basis for the assumptions used and their validity, and the difference, if any, in the approach taken to making the accounting estimate.

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Narrowing a Range (Ref: Para. 13(d)(ii))

A9482. When the auditor concludes that it is appropriate to use a range to evaluate the reasonableness of management's point estimate (the 'auditor's range'), paragraph 13(d)(ii) of this ISA requires that range to encompass all "reasonable outcomes" rather than all possible outcomes. ~~†~~The range cannot be one that comprises all possible outcomes if it is to be useful, as ~~–S~~such a range would be too wide to be effective for purposes of the audit. The auditor's range is useful and effective when it is sufficiently narrow to enable the auditor to identify a material misstatement.

A9583. Narrowing the range to a point where all outcomes within the range are considered reasonable may be achieved by:

- Eliminating from the range those outcomes at the extremities of the range judged by the auditor to be unlikely to occur, and
- Continuing to narrow the range, based on audit evidence available, until the auditor concludes that all outcomes within the range are considered reasonable. In some rare cases, the auditor may be able to narrow the range until the audit evidence indicates a point estimate.

A9684. Ordinarily, a range that has been narrowed to be equal to or less than the amount lower than the materiality level for the financial statements as a whole determined for purposes of assessing risks of material misstatement and designing further audit procedures⁶ is adequate for the purposes of evaluating the reasonableness of management's point estimate. However, particularly in certain industries, it may not be possible to narrow the range to below such an amount. This does not necessarily preclude recognition of the accounting estimate. It may indicate, however, that the estimation uncertainty associated with the accounting estimate is such that it gives rise to a significant risk. Additional responses to significant risks are described in paragraphs A10486-A11604.

~~A85. In some rare cases, the auditor may be able to narrow the range until the audit evidence indicates a point estimate. In such cases, that point estimate is used as the auditor's point estimate.~~

Determining whether Specialized Skills or Knowledge is Required for the Engagement ~~the Need to Use the Work of an Expert~~ (Ref: Para. 142) **[ISSUE A.II]**

~~A51. The auditor may have the necessary skill and knowledge to plan and perform audit procedures relating the accounting estimates that give rise to risks of material misstatement, or may determine that it is necessary to use the work of an auditor's expert. ISA 620, "Using the Work of an Expert" provides guidance in determining the need to use the work of an auditor's expert and the auditor's responsibilities when using such work.~~

⁶ See proposed ISA 320 (Revised and Redrafted), "Materiality in Planning and Performing an Audit."

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- A97. ISA 300 (Redrafted), “Planning an Audit of Financial Statements,” requires the auditor to ascertain the nature, timing and extent of resources necessary to perform the audit engagement, including the involvement of those with specialized skills or knowledge. The determination of when specialized skills or knowledge may be necessary depends on the nature of the accounting estimate and the experience of the auditor.
- A98. The need for specialized skills or knowledge may exist when the entity engages in complex derivatives or other accounting estimates that have high estimation uncertainty or involve complex calculations, though specialized skills or knowledge is unlikely to be needed for purposes of obtaining sufficient appropriate audit evidence for routine accounting estimates.
- A99. When an entity uses a model to make a fair value accounting estimate, and such model is highly specialized or proprietary, the auditor may consider it necessary to involve a person with specialized skill or knowledge to evaluate the appropriateness of the model and the assumptions used in the model.
- A100. The auditor may involve the specialist in one or more of the responses to assessed risks indicated in paragraph 13 of this ISA. For example, the specialist may be used to develop the auditor’s range or may test the assumptions used by management in making the accounting estimate. Additionally, it may be that specialized skills or knowledge are needed on the engagement when management has used an expert to make a point estimate.
- A101. Persons possessing the specialized skills or knowledge to be used on the engagement may be within the auditor’s firm or independent of the auditor’s firm. The work of the specialist is directed and supervised by the auditor in accordance with proposed ISA 220 (Redrafted), “Quality Control for an Audit of Financial Statements.” The scope of the work to be performed by the specialist is agreed to by the auditor and the specialist at the beginning of the engagement.
- A102. When the specialist possesses expertise in subjects other than accounting or auditing, the specialist is known as an auditor’s expert. [Proposed] ISA 620 (Revised and Redrafted), “Using the Work of an Auditor’s Expert” establishes requirements and provides guidance in determining the need to use the work of an auditor’s expert and the auditor’s responsibilities when using such work.
- A103. When planning to use the work of a specialist, including an auditor’s expert, confirmation of the specialist’s understanding of the accounting estimate and the method that the specialist will use to develop the accounting estimate or test the assumptions used by management ensures that the definition and the methods to be used by the specialist are consistent with that of management, where appropriate, and the requirements of the applicable financial reporting framework. For example, the method used by a specialist for estimating the fair value of real estate or a complex derivative, or the actuarial methodologies developed for making fair value estimates of insurance obligations, reinsurance receivables and similar items, may not be consistent with the measurement

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principles of the applicable financial reporting framework, and so communication between the auditor and the specialist may be necessary.

Further Substantive Procedures to Respond to Significant Risks (Ref: Para. 154)

A10486. ~~Paragraph 10(b) requires the auditor, in identifying and assessing the risks of material misstatement, to determine which accounting estimates have high estimation uncertainty and may, therefore, give rise to significant risks. Paragraph A39 provides examples of accounting estimates that may have high estimation uncertainty. ISA 330 (Redrafted) requires the auditor to perform substantive procedures that specifically respond to significant risks.~~ In auditing accounting estimates that give rise to significant risks, the auditor's further substantive procedures are primarily directed towards the evaluation of:

- How management has assessed the effect of estimation uncertainty on the accounting estimate, and the effect such uncertainty may have on the appropriateness of the recognition of the accounting estimate in the financial statements; and
- The adequacy of related disclosures.

Estimation Uncertainty

Management's Consideration of Estimation Uncertainty (Ref: Para. 154(a))

A10587. Management may evaluate alternative assumptions or outcomes of the accounting estimates through a number of methods, depending on the circumstances. One possible method used by management is to undertake a sensitivity analysis. This might involve determining how the monetary amount of an accounting estimate varies with different assumptions. Even for accounting estimates measured at fair value there can be variation because different market participants will use different assumptions. A sensitivity analysis could lead to the development of a number of outcome scenarios, sometimes characterized as a range of outcomes by management, such as "pessimistic" and "optimistic" scenarios.

A10688. A sensitivity analysis may demonstrate that an accounting estimate is not sensitive to changes in particular assumptions. Alternatively, it may demonstrate that the accounting estimate is sensitive to one or more assumptions that then become the focus of the auditor's attention.

A10789. This is not intended to suggest that one particular method of addressing estimation uncertainty (such as sensitivity analysis) is more suitable than another, or that management's consideration of alternative assumptions or outcomes needs to be conducted through a detailed process supported by extensive documentation. Rather, it is whether management has assessed how estimation uncertainty may affect the accounting estimate that is important, not the specific manner in which it is done. Accordingly, where management has not considered alternative assumptions or outcomes, it may be necessary for the auditor to discuss with management, and request support for, how it has addressed the effects of estimation uncertainty on the accounting estimate.

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Considerations specific to smaller entities

A10890. ~~Often, s~~Smaller entities may use simpler means to assess the estimation uncertainty. ~~In these circumstances, I~~In addition to the auditor's review of available documentation, the auditor ~~may generally~~obtain ~~others~~ audit evidence of management consideration of alternative assumptions or outcomes by inquiry of management. In addition, management may not have the expertise ~~and experience~~to consider alternative outcomes or otherwise address the estimation uncertainty of the accounting estimate. In such cases, the auditor may explain to management the process or the different methods available for doing so, and the documentation thereof. This would not, however, change the responsibilities of management for the preparation and presentation of the financial statements.

Significant Assumptions (Ref: Para. 154(b))

A10994. ~~The evaluation of significant assumptions for accounting estimates that give rise to significant risks is required because of the influence that such assumptions are likely to have on such accounting estimates.~~Support for significant assumptions derived from management's knowledge may be obtained from management's continuing processes of strategic analysis and risk management. Even without formal established processes, such as may be the case in smaller entities, the auditor may be able to evaluate the assumptions through inquiries of and discussions with management, along with other audit procedures in order to obtain sufficient appropriate audit evidence.

A11092. The auditor's considerations in evaluating assumptions made by management are described in paragraphs A7766-A8370.

Management Intent and Ability (Ref: Para. 154(c))

A11193. The auditor's considerations in relation to assumptions made by management and management's intent and ability are described in paragraphs A132 and A8074.

Development of a Range (Ref: Para. 165)

A11294. In preparing the financial statements, management may be satisfied that it has adequately addressed the effects of estimation uncertainty on the accounting estimates that give rise to significant risks. In some circumstances, however, the auditor may view the efforts of management as inadequate. This may be the case, for example, where in the auditor's judgment:

- Sufficient appropriate audit evidence could not be obtained through the auditor's evaluation of how management has addressed the effects of estimation uncertainty.
- It is necessary to explore further the degree of estimation uncertainty associated with an accounting estimate, for example, where the auditor is aware of wide variation in outcomes for similar accounting estimates in similar circumstances.

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- It is unlikely that other audit evidence can be obtained, for example, through the review of events occurring up to the date of the auditor's report.
- Indicators of management bias in the making of accounting estimates may exist.

A11395. The auditor's considerations in determining a range for this purpose are described in paragraphs A9179-A9685.

Recognition and Measurement Criteria

Recognition of the Accounting Estimates in the Financial Statements (Ref: Para. 176(a))

A11496. Where management has recognized an accounting estimate in the financial statements, the focus of the auditor's evaluation is on whether the recognition criteria of the applicable financial reporting framework have been met. In accordance with paragraph 17 of this ISA, ~~Where the auditor judges that it is the estimation uncertainty associated with an accounting estimate that gives rise to a significant risk, this evaluation focuses on whether the measurement of the accounting estimate is sufficiently reliable to meet the recognition criteria of the applicable financial reporting framework.~~

A11597. With respect to accounting estimates that have not been recognized, the focus of the auditor's evaluation is on whether the recognition criteria of the applicable financial reporting framework have, in fact, been met. Even where an accounting estimate has not been recognized and the auditor concludes that this treatment is appropriate, there may be a need for adequate disclosure of the circumstances in the notes to the financial statements. The auditor may also determine that there is a need to draw the reader's attention to a significant uncertainty by adding an emphasis of matter paragraph to the auditor's report. [Proposed] ISA 706 (Revised and Redrafted), "Emphasis of Matter Paragraphs and Other Matter(s) Paragraphs in the Independent Auditor's Report," establishes requirements and provides guidance concerning such paragraphs.

Measurement at Fair Value (Ref: Para. 176(b))

A11698. With respect to fair value accounting estimates, some financial reporting frameworks presume that fair value can be measured reliably as a prerequisite to either requiring or permitting fair value measurements and disclosures. In some cases, this presumption may be overcome when, for example, there is no appropriate method or basis for measurement. In such cases, the focus of the auditor's evaluation is on whether management's basis for overcoming the presumption relating to the use of fair value set forth under the applicable financial reporting framework is appropriate.

Evaluating the Reasonableness of the Accounting Estimates ~~and Related Disclosures~~, and Determining Misstatements (Ref: Para. 18)

A117402. Based on the audit evidence obtained, the auditor may conclude that the evidence points to an accounting estimate that differs from management's point estimate. Where the

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audit evidence supports a point estimate, the difference between the auditor's point estimate and management's point estimate constitutes a financial statement misstatement.
~~In such cases, w~~Where the auditor has concluded that using the auditor's range provides sufficient appropriate audit evidence, a ~~misstatement exists when~~ management's point estimate that lies outside the auditor's range would not be supported by audit evidence. ~~In such cases, t~~The misstatement may be measured as the difference between management's point estimate and the nearest point of the auditor's range. ~~Where the audit evidence supports a point estimate, the difference between the auditor's point estimate and management's point estimate constitutes a financial statement misstatement.~~

A118403. Where management has changed an accounting estimate, or the method in making it, from the prior period based on a subjective assessment that there has been a change in circumstances, the auditor may conclude based on the audit evidence that the accounting estimate is misstated as a result of an arbitrary change by management, or may regard it as an indicator of possible management bias (see paragraphs A12607-A12708).

A119404. [Proposed] ISA 450-700 (Redrafted), "The Independent Auditor's Report on General Purpose Financial Statements," "Evaluation of Misstatements Identified during the Audit" provides guidance on distinguishing misstatements for purposes of the auditor's evaluation of the effect of uncorrected misstatements on the financial statements. In relation to accounting estimates, a misstatement, whether caused by fraud or error, may arise as a result of:

- Misstatements about which there is no doubt (factual misstatements).
- Differences arising from management's judgments concerning accounting estimates that the auditor considers unreasonable, or the selection or application of accounting policies that the auditor considers inappropriate (judgmental misstatements).
- The auditor's best estimate of misstatements in populations, involving the projection of misstatements identified in audit samples to the entire populations from which the samples were drawn (projected misstatements).

In some cases involving accounting estimates, a misstatement could arise as a result of a combination of these circumstances, making separate identification difficult or impossible.

A120405. In some cases, it may not be possible for the auditor to obtain sufficient appropriate audit evidence about an accounting estimate that could be material to the financial statements. [Proposed] ISA 705 (Revised and Redrafted), "Modifications to the Opinion in the Independent Auditor's Report" establishes requirements and provides guidance regarding expressing either a qualified opinion or disclaimer of opinion in these circumstances.

A121406. Evaluating the reasonableness of accounting estimates and related disclosures included in the notes to the financial statements, whether required by the applicable financial reporting framework or disclosed voluntarily, involves essentially the same types

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of considerations applied when auditing an accounting estimate recognized in the financial statements.

Disclosures Related to Accounting Estimates [ISSUE B.I AND ISSUE A.I]

Disclosures in Accordance with the Applicable Financial Reporting Framework (Ref: Para. 19)

A12299. The presentation of financial statements in accordance ~~conformity~~ with the applicable financial reporting framework ordinarily includes adequate disclosure of material matters. ~~In relation to accounting estimates having significant risk, even where the auditor is able to obtain sufficient appropriate audit evidence, the auditor may conclude that estimation uncertainty relating to such estimate needs to be disclosed in light of the circumstances and facts involved. The auditor's evaluation of the adequacy of disclosure of estimation uncertainty increases in importance the greater the auditor's range is in relation to materiality (see related discussion in paragraph A84). The applicable financial reporting framework may permit, or prescribe, disclosures related to accounting estimates, and some entities may disclose voluntarily additional information in the notes to the financial statements. These disclosures may include, for example, the assumptions used, the method of estimation, including where applicable the model used and the basis for its selection and the effect of any changes thereto from the prior period, and the sources and implications of estimation uncertainty. Such disclosures are relevant to users in understanding the accounting estimates recognized or disclosed in the financial statements, and therefore sufficient appropriate audit evidence needs to be obtained through the performance of audit procedures relevant to determining whether the disclosures are in accordance with the requirements of the applicable financial reporting framework.~~

A12300. In some cases, the applicable financial reporting framework may specify additional requirements for ~~may require specific~~ disclosures regarding uncertainties. For example, some financial reporting frameworks prescribe:

- The disclosure of key assumptions and other sources of estimation uncertainty that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities. Such requirements may be described using terms such as “Key Sources of Estimation Uncertainty” or “Critical Accounting Estimates.”
- The disclosures of the range of possible outcomes, and the assumptions used in determining the range.
- The disclosure of information regarding the significance of fair value accounting estimates to the entity's financial position and performance.
- Qualitative disclosures such as the exposures to risk and how they arise, the entity's objectives, policies and procedures for managing the risk and the methods used to measure the risk and any changes from the previous period of these qualitative concepts.

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- Quantitative disclosures such as the extent to which the entity is exposed to risk, based on information provided internally to the entity's key management personnel, including credit risk, liquidity risk and market risk.

Disclosures of Estimation Uncertainty for Accounting Estimates that Give Rise to Significant Risks
(Ref: Para. 2047)

A124. In relation to accounting estimates having significant risk, even where the auditor is able to obtain sufficient appropriate audit evidence that disclosures are in accordance with the applicable financial reporting framework, the auditor may conclude that the disclosure of estimation uncertainty is inadequate in light of the circumstances and facts involved. The auditor's evaluation of the adequacy of disclosure of estimation uncertainty increases in importance the greater the range of possible outcomes of the accounting estimate is in relation to materiality (see related discussion in paragraph A96).

A12504. ~~Where the applicable financial reporting framework does not prescribe disclosure of estimation uncertainty~~In some cases, the auditor may consider it appropriate to encourage management to describe, in the notes to the financial statements, the circumstances relating to the estimation uncertainty. [Proposed] ISA 705 (Revised and Redrafted) provides guidance on the implications for the auditor's report when the auditor believes that management's disclosure of estimation uncertainty in the financial statements is inadequate or misleading.

Indicators of Possible Management Bias (Ref: Para. 2149)

A126407. During the audit, the auditor may become aware of judgments and decisions made by management which give rise to indicators of possible management bias. Such indicators ~~do not themselves constitute misstatements for the purposes of drawing conclusions on the reasonableness of individual accounting estimates. They may, however,~~ affect the auditor's conclusion as to whether the auditor's risk assessment and related responses remain appropriate, and the auditor may need to consider the implications for the rest of the audit. Further, they may affect the auditor's evaluation of whether the financial statements as a whole are free from material misstatement, as discussed in [proposed] ISA 700450 (Redrafted).

A127408. Examples of indicators of possible management bias with respect to accounting estimates include:

- ~~e•~~ Changes in an accounting estimate, or the method for making it, where management has made a subjective assessment that there has been a change in circumstances.
- Use of an entity's own assumptions for fair value accounting estimates when they are inconsistent with observable marketplace assumptions.
- ~~e•~~ Selection or construction of significant assumptions that yield a point estimate favorable for management objectives.

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- Selection of a point estimate by management such that the outcome scenario is indicative of a pattern when considered in conjunction with the optimism or pessimism of other accounting estimates.

Written Representations (Ref: Para. 229)

A128109. [Proposed] ISA 580 (Revised and Redrafted), “Written Representations” discusses the use of written representations. Depending on the nature, materiality and extent of estimation uncertainty, written representations about accounting estimates recognized or disclosed in the financial statements may include representations:

- About the appropriateness of the measurement processes, including related assumptions and models, used by management in determining accounting estimates in the context of the applicable financial reporting framework, and the consistency in application of the processes.
- That the assumptions appropriately reflect management’s intent and ability to carry out specific courses of action on behalf of the entity, where relevant to the accounting estimates and disclosures.
- That disclosures related to accounting estimates are complete and appropriate under the applicable financial reporting framework.
- That no subsequent events require adjustment to the accounting estimates and disclosures included in the financial statements.

A129110. For those accounting estimates not recognized or disclosed in the financial statements, written representations may also include representations about:

- The appropriateness of the basis used by management for determining that the recognition or disclosure criteria of the applicable financial reporting framework have not been met (see paragraph A11197).
- The appropriateness of the basis used by management to overcome the presumption relating to the use of fair value set forth under the entity’s applicable financial reporting framework, for those accounting estimates not measured or disclosed at fair value (see paragraph A11298).

Documentation (Ref: Para. 231)

A130111. Documentation of indicators of possible management bias identified during the audit assists the auditor in concluding whether the auditor’s risk assessment and related responses remain appropriate, and in evaluating whether the financial statements as a whole are free from material misstatement. See paragraph A123108 for examples of indicators of possible management bias.

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Appendix

(Ref: Para. A1)

The purpose of this appendix is only to provide a general discussion of fair value measurements and disclosures under different financial reporting frameworks, for background and context.

Fair Value Measurements and Disclosures Under Different Financial Reporting Frameworks

1. Different financial reporting frameworks require or permit a variety of fair value measurements and disclosures in financial statements. They also vary in the level of guidance that they provide on the basis for measuring assets and liabilities or the related disclosures. Some financial reporting frameworks give prescriptive guidance, others give general guidance, and some give no guidance at all. In addition, certain industry-specific measurement and disclosure practices for fair values also exist.
2. Definitions of fair value may differ among financial reporting frameworks, or for different assets, liabilities or disclosures within a particular framework. For example, International Accounting Standard (IAS) 39, “Financial Instruments: Recognition and Measurement” defines fair value as “the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm’s length transaction.” The concept of fair value ordinarily assumes a current transaction, rather than settlement at some past or future date. Accordingly, the process of measuring fair value would be a search for the estimated price at which that transaction would occur. Additionally, different financial reporting frameworks may use such terms as “entity-specific value,” “value in use,” or similar terms, but may still fall within the concept of fair value in this ISA.
3. Financial reporting frameworks may treat changes in fair value measurements that occur over time in different ways. For example, a particular financial reporting framework may require that changes in fair value measurements of certain assets or liabilities be reflected directly in equity, while such changes might be reflected in income under another framework. In some frameworks, the determination of whether to use fair value accounting or how it is applied is influenced by management’s intent to carry out certain courses of action with respect to the specific asset or liability.
4. Different financial reporting frameworks may require certain specific fair value measurements and disclosures in financial statements and prescribe or permit them in varying degrees. The financial reporting frameworks may:
 - Prescribe measurement, presentation and disclosure requirements for certain information included in the financial statements or for information disclosed in notes to financial statements or presented as supplementary information;

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- Permit certain measurements using fair values at the option of an entity or only when certain criteria have been met;
 - Prescribe a specific method for determining fair value, for example, through the use of an independent appraisal or specified ways of using discounted cash flows;
 - Permit a choice of method for determining fair value from among several alternative methods (the criteria for selection may or may not be provided by the financial reporting framework); or
 - Provide no guidance on the fair value measurements or disclosures of fair value other than their use being evident through custom or practice, for example, an industry practice.
5. Some financial reporting frameworks presume that fair value can be measured reliably for assets or liabilities as a prerequisite to either requiring or permitting fair value measurements or disclosures. In some cases, this presumption may be overcome when an asset or liability does not have a quoted market price in an active market and for which other methods of reasonably estimating fair value are clearly inappropriate or unworkable.
6. Some financial reporting frameworks require certain specified adjustments or modifications to valuation information, or other considerations unique to a particular asset or liability. For example, accounting for investment properties may require adjustments to be made to an appraised market value, such as adjustments for estimated closing costs on sale, adjustments related to the property's condition and location, and other matters. Similarly, if the market for a particular asset is not an active market, published price quotations may have to be adjusted or modified to arrive at a more suitable measure of fair value. For example, quoted market prices may not be indicative of fair value if there is infrequent activity in the market, the market is not well established, or small volumes of units are traded relative to the aggregate number of trading units in existence. Accordingly, such market prices may have to be adjusted or modified. Alternative sources of market information may be needed to make such adjustments or modifications. Further, in some cases, collateral assigned (for example, when collateral is assigned for certain types of investment in debt) may need to be considered in determining the fair value or possible impairment of an asset or liability.
7. In most financial reporting frameworks, underlying the concept of fair value measurements is a presumption that the entity is a going concern without any intention or need to liquidate, curtail materially the scale of its operations, or undertake a transaction on adverse terms. Therefore, in this case, fair value would not be the amount that an entity would receive or pay in a forced transaction, involuntary liquidation, or distress sale. An entity, however, may need to take its current economic or operating situation into account in determining the fair values of its assets and liabilities if prescribed or permitted to do so by its financial reporting framework and such framework may or may not specify how that is done. For example, management's plan to dispose of an asset on an accelerated basis to meet specific business objectives may be relevant to the determination of the fair value of that asset.

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Prevalence of Fair Value Measurements

8. Measurements and disclosures based on fair value are becoming increasingly prevalent in financial reporting frameworks. Fair values may occur in, and affect the determination of, financial statements in a number of ways, including the measurement at fair value of the following:

- Specific assets or liabilities, such as marketable securities or liabilities to settle an obligation under a financial instrument, routinely or periodically “marked-to-market.”
- Specific components of equity, for example when accounting for the recognition, measurement and presentation of certain financial instruments with equity features, such as a bond convertible by the holder into common shares of the issuer.
- Specific assets or liabilities acquired in a business combination. For example, the initial determination of goodwill arising on the purchase of an entity in a business combination usually is based on the fair value measurement of the identifiable assets and liabilities acquired and the fair value of the consideration given.
- Specific assets or liabilities adjusted to fair value on a one-time basis. Some financial reporting frameworks may require the use of a fair value measurement to quantify an adjustment to an asset or a group of assets as part of an asset impairment determination, for example, a test of impairment of goodwill acquired in a business combination based on the fair value of a defined operating entity or reporting unit, the value of which is then allocated among the entity’s or unit’s group of assets and liabilities in order to derive an implied goodwill for comparison to the recorded goodwill.
- Aggregations of assets and liabilities. In some circumstances, the measurement of a class or group of assets or liabilities calls for an aggregation of fair values of some of the individual assets or liabilities in such class or group. For example, under an entity’s applicable financial reporting framework, the measurement of a diversified loan portfolio might be determined based on the fair value of some categories of loans comprising the portfolio.
- Information disclosed in notes to financial statements or presented as supplementary information, but not recognized in the financial statements.

Fair Value Hierarchy

9. To increase consistency and comparability in fair value measurements and related disclosures, some financial reporting frameworks specify a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). In some cases, the inputs used to measure fair value may fall in different levels of the fair value hierarchy. The level in the fair value hierarchy within

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which the fair value measurement in its entirety falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety. Assessing the significance of a particular input to the fair value measurement in its entirety involves judgment, considering factors specific to the asset or liability.

10. The availability of inputs relevant to the asset or liability and the relative reliability of the inputs may affect the selection of appropriate valuation techniques. However, the fair value hierarchy prioritizes the inputs to valuation techniques, not the valuation techniques. For example, a fair value measurement using a present value technique may fall within Level 2 or Level 3, depending on the inputs that are significant to the measurement in its entirety and the level in the fair value hierarchy within which those inputs fall.

Level 1 Inputs

11. Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity has the ability to access at the measurement date. An active market for the asset or liability is a market in which transactions for the asset or liability occur with sufficient frequency and volume to provide pricing information on an ongoing basis. A quoted price in an active market provides the most reliable evidence of fair value and is used to measure fair value whenever available, except as discussed in paragraphs 12 and 13.
12. If the entity holds a large number of similar assets or liabilities (for example, debt securities) that are required to be measured at fair value, a quoted price in an active market may be available but not readily accessible for each of those assets or liabilities individually. In that case, fair value may be measured using an alternative pricing method that does not rely exclusively on quoted prices (for example, matrix pricing) as a practical expedient. However, the use of an alternative pricing method renders the fair value measurement a lower level measurement.
13. In some situations, a quoted price in an active market may not represent fair value at the measurement date. That might be the case if, for example, significant events (principal-to-principal transactions, brokered trades, or announcements) occur after the close of a market but before the measurement date. The entity is responsible for establishing and consistently applying a policy for identifying those events that may affect fair value measurements. However, if the quoted price is adjusted for new information, the adjustment renders the fair value measurement a lower level measurement.
14. If the entity holds a position in a single financial instrument (including a block) and the instrument is traded in an active market, the fair value of the position is measured within Level 1 as the product of the quoted price for the individual instrument times the quantity held. The quoted price is not adjusted because of the size of the position relative to trading volume (blockage factor). The use of a blockage factor is prohibited, even if a market's normal daily trading volume is not sufficient to absorb the quantity held and placing orders to sell the position in a single transaction might affect the quoted price.

Level 2 Inputs

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15. Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. If the asset or liability has a specified (contractual) term, a Level 2 input must be observable for substantially the full term of the asset or liability. Level 2 inputs include the following:
- (a) Quoted prices for similar assets or liabilities in active markets
 - (b) Quoted prices for identical or similar assets or liabilities in markets that are not active, that is, markets in which there are few transactions for the asset or liability, the prices are not current, or price quotations vary substantially either over time or among market makers (for example, some brokered markets), or in which little information is released publicly (for example, a principal-to principal market)
 - (c) Inputs other than quoted prices that are observable for the asset or liability (for example, interest rates and yield curves observable at commonly quoted intervals, volatilities, prepayment speeds, loss severities, credit risks, and default rates)
 - (d) Inputs that are derived principally from or corroborated by observable market data by correlation or other means (market-corroborated inputs).
16. Adjustments to Level 2 inputs will vary depending on factors specific to the asset or liability. Those factors include the condition and/or location of the asset or liability, the extent to which the inputs relate to items that are comparable to the asset or liability, and the volume and level of activity in the markets within which the inputs are observed. An adjustment that is significant to the fair value measurement in its entirety might render the measurement a Level 3 measurement, depending on the level in the fair value hierarchy within which the inputs used to determine the adjustment fall.

Level 3 Inputs

17. Level 3 inputs are unobservable inputs for the asset or liability. Unobservable inputs are used to measure fair value to the extent that observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset or liability at the measurement date. However, the fair value measurement objective remains the same, that is, an exit price from the perspective of a market participant that holds the asset or owes the liability. Therefore, unobservable inputs reflect the entity's own assumptions about the assumptions that market participants would use in pricing the asset or liability (including assumptions about risk). Unobservable inputs are developed based on the best information available in the circumstances, which may include the reporting entity's own data. In developing unobservable inputs, the entity need not undertake all possible efforts to obtain information about market participant assumptions. However, the entity cannot ignore information about market participant assumptions that is reasonably available without undue cost and effort. Therefore, the entity's own data used to develop unobservable inputs is adjusted if information is reasonably available without undue cost and effort that indicates that market participants would use different assumptions.

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Inputs Based on Bid and Ask Prices

18. If an input used to measure fair value is based on bid and ask prices (for example, in a dealer market), the price within the bid-ask spread that is most representative of fair value in the circumstances is used to measure fair value, regardless of where in the fair value hierarchy the input falls (Level 1, 2, or 3).