

### PROPOSED INTERNATIONAL STANDARD ON AUDITING 540 (REVISED) (Mark-up from October)

#### AUDITING ACCOUNTING ESTIMATES AND RELATED DISCLOSURES (OTHER THAN THOSE INVOLVING FAIR VALUE MEASUREMENTS AND DISCLOSURES)

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

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## Introduction

1. The purpose of this International Standard on Auditing (ISA) is to establish standards and provide guidance on auditing accounting estimates and related disclosures, other than those involving fair value measurements and disclosures. ISA 545, “Auditing Fair Value Measurements and Disclosures” provides standards and guidance on auditing accounting estimates involving fair value measurements or disclosures.
2. This ISA includes standards and guidance on the auditor’s determination ~~and documentation~~ of misstatements relating to individual accounting estimates, and on the auditor’s consideration and documentation of indicators of possible management bias. ISA XXX, [~~“Aggregating and Evaluating of Misstatements Identified During the Audit”~~], ~~establishes provides~~ standards and ~~provides~~ guidance on the auditor’s evaluation of the effect ~~of uncorrected misstatements, including those relating to accounting estimates,~~ on the financial statements, ~~of all misstatements identified during the audit, including those relating to accounting estimates,~~ and on the auditor’s evaluation of whether the financial statements as a whole are free of material misstatement.
3. **The auditor should obtain sufficient appropriate audit evidence to evaluate the reasonableness of accounting estimates and related disclosures in the financial statements, in the context of the entity’s applicable financial reporting framework.**

## Definitions

4. The following terms are introduced in this ISA:
  - (a) “Accounting estimate” – An approximation of a monetary amount in the absence of a precise means of measurement. For purposes of this ISA, ~~the~~ ~~(i)~~ ~~The~~ amount selected by management for recognition in the financial statements as an accounting estimate is referred to as “management’s point estimate.”
  - ~~(b)~~ ~~(i)~~ **“(Auditor’s point estimate” or “auditor’s range” – The amount, or range of amounts, respectively, derived from audit evidence by the auditor, or by a third-party expert, engaged by the auditor as an accounting estimate for use in -comparison to evaluating management’s point estimate -is referred to as “the auditor’s point estimate.”.**
  - (c) “Estimation uncertainty” – The susceptibility of a financial statement item to a lack of precision in its measurement, often because the outcome of future events is not known.
  - ~~(d)~~ **“(Management bias” – A lack of neutrality by management in the preparation and presentation of information.**
  - ~~(e)~~ **“(Significant assumption” – An assumption used in making an accounting estimate that involves judgment about the outcome of future conditions, transactions or events, where variation in the assumption would materially affect the measurement of the accounting estimate.**

## Nature of Accounting Estimates

5. Because of the uncertainties inherent in business activities, some financial statement items cannot be measured with precision but can only be estimated. Accordingly, making an

accounting estimate frequently requires management to develop assumptions about the outcome of future conditions, transactions or events that are uncertain at the time of the estimation. Estimation involves judgments based on reliable information that is available at the time of preparation of the financial statements.

6. Accounting estimates may be required, for example, of:
  - Allowance for doubtful accounts or investment impairment
  - Inventory obsolescence
  - Warranty obligations
  - Depreciation method or asset useful life
  - Environmental remediation costs
  - Employee entitlements and related provisions (e.g. pension-related liabilities)
  - Outcome of long term contracts
  - Insurance claim reserves
  - Costs arising from litigation settlements and judgments
7. In some cases, accounting estimates involve relatively low estimation uncertainty and may give rise to lower risks of material misstatements, for example, accounting estimates that are measured on a routine basis. This may often be the case for smaller entities that engage in business activities that are not complex. For some accounting estimates, however, there may be relatively high estimation uncertainty, particularly where they are based on assumptions about future conditions, transactions or events that are uncertain at the time of estimation. In some other cases, the sensitivity of an accounting estimate to changes in assumptions may be so great that a reliable estimate cannot be made.
8. 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.
9. Financial reporting frameworks often call for neutrality, that is, freedom from bias. Accounting estimates are, however, imprecise, and are 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 in relation to 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.
10. Management bias, whether unintentional or intentional, can be difficult to detect at an account level and may only be identified when considered in the aggregate of groups of estimates or all 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. ISA 240, “The Auditor’s Responsibility to Consider Fraud in an Audit of Financial Statements,” provides standards and guidance on the auditor’s responsibility to consider fraud in an audit of financial statements.

## Risk Assessment Procedures

11. ISA 315, “Understanding the Entity and Its Environment and Assessing the Risks of Material Misstatement” requires the auditor to obtain an understanding of the entity and its environment, including its internal control, sufficient to identify and assess the risks of material misstatement of the financial statements whether due to fraud or error, and design and perform further procedures. The auditor obtains this understanding by performing risk assessment procedures, which involve gathering, updating and analyzing information throughout the audit.
12. ~~As part of the risk assessment procedures performed in accordance with ISA 315, the auditor should perform risk assessment procedures~~ In order to identify accounting estimates for which there is a risk of material misstatement, the auditor should:
  - (a) ~~Obtain~~**ing** an understanding of the requirements of the entity’s applicable financial reporting framework relevant to accounting estimates;
  - (b) ~~Obtain~~**ing** an understanding of how management identifies those transactions, events and conditions that may give rise to the need for accounting estimates in the financial statements;
  - (c) ~~Obtain~~**ing** an understanding of how management’s process used to make the accounting estimates and the data on which they are based (i.e., management’s process used to make accounting estimates), including:
    - (i) Relevant internal controls;
    - (ii) Whether management has used an expert, either from within or outside the entity;
    - ~~(ii)(iii)~~ The assumptions underlying accounting estimates; and
    - (iv) Whether the methods for making the accounting estimates have been applied consistently, and the basis for changes, if any, in accounting estimates from the prior period; and
    - ~~(iii)(v)~~ Whether, and if so how, management has assessed the effect of estimation uncertainty.
  - (d) ~~Review~~**ing** the outcome, or re-estimation, of accounting estimates made in the prior period financial statements.
13. The above risk assessment procedures also 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 assessing risk and planning the nature, timing and extent of further audit procedures.

## Obtaining an Understanding of the Requirements of the Financial Reporting Framework

14. Obtaining an understanding of the requirements of the entity's applicable financial reporting framework assists the auditor in determining whether the financial reporting framework prescribes certain conditions for the recognition, or methods for the ~~recognition and~~ measurement, of accounting estimates, or specifies required disclosures. It also provides the auditor with a basis for discussion with management about how it has applied the requirements of the applicable financial reporting framework relevant to the accounting estimate.
15. 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.
16. In some cases, management may be able to make an estimate directly. In other cases, management may be able to make a reliable 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 from alternative outcomes. Some financial reporting frameworks, for example, require that the point estimate be selected from alternative outcomes to reflect management's judgment of the most likely outcome of the uncertain future conditions, transactions or events that led it to make the accounting estimate.<sup>1</sup>
17. Financial reporting frameworks may require the disclosure of information concerning the significant assumptions to which the estimate is particularly sensitive. ~~18. 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

- ~~1819.~~ 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. The auditor obtains an understanding of 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.
- ~~1920.~~ Management's identification of transactions, events and conditions that give rise to the need for accounting estimates is likely to be based on its knowledge of the entity's business and the industry in which it operates, its knowledge of the implementation of strategies in the current period and, where applicable, its cumulative experience of preparing the entity's

<sup>1</sup> Different financial reporting frameworks may use different terminology to describe point estimates determined in this way.

financial statements in previous periods. The auditor inquires of management about changes in circumstances such as, for example, whether the following:

- The entity ~~may have~~ has engaged in new types of transactions that may give rise to accounting estimates.
- Terms of transactions that gave rise to accounting estimates ~~may~~ have changed.
- The requirements of the applicable financial reporting framework ~~may~~ have changed.
- 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 that may give rise to new, or the need to revise existing, accounting estimates have occurred.

For smaller entities, obtaining ~~this an~~ understanding ~~how management identifies the need for accounting estimates~~ is often straightforward because the range of business activities to which the entity is party is often more limited than that of a larger entity and the transactions are often less complex. Further, often a single person, usually the owner-manager, is involved in determining the need to make an accounting estimate.

2024. The completeness of accounting estimates is often a primary consideration of the auditor, particularly in relation to estimates relating to liabilities. The auditor's understanding of the entity and its environment, including changes in circumstances of the entity, 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 that may give rise to the need for an accounting estimate.

2122. 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. If so, the auditor considers why the entity's risk assessment process failed to identify them and whether the process is appropriate for the circumstances. ISA 315 provides guidance when the auditor identifies a material weakness in the entity's risk assessment processes.

### Obtaining an Understanding of How Management's ~~Process Used to Make~~ The Accounting Estimates

2223. Management is responsible for making accounting estimates and establishing financial reporting processes for measuring them, including adequate internal controls. Such processes include the following:

- Selecting appropriate accounting policies and prescribing estimation processes.
- Developing assumptions about future conditions, transactions or events that affect accounting estimates.
- Periodically reviewing the circumstances that give rise to the accounting estimates and re-estimating the accounting estimates as necessary.

23. In obtaining an understanding of how management made the accounting estimates, the auditor ordinarily considers matters such as:

- The types of accounts or transactions to which the accounting estimates relate (for example, whether the estimates arise from the recording of routine and recurring transactions or whether they arise from non-recurring or unusual transactions).
- How management has applied the requirements of the applicable financial reporting framework relevant to the accounting estimate and the appropriateness of the accounting policies selected.
- Whether, and if so how, management has used recognized measurement techniques for making particular accounting estimates.

#### Relevant Internal Controls

24. In obtaining an understanding of ~~management's process for making accounting estimates, including~~ relevant internal controls, the auditor ordinarily considers matters such as:
- ~~The types of accounts or transactions to which the accounting estimates relate (for example, whether the estimates arise from the recording of routine and recurring transactions or whether they arise from non-recurring or unusual transactions).~~
  - ~~How management has applied the requirements of the applicable financial reporting framework relevant to the accounting estimate and the appropriateness of the accounting policies selected.~~
  - ~~Whether, and if so how, management has used recognized measurement techniques for making particular accounting estimates.~~
  - The experience and competence of those who make the accounting estimates, ~~including any use of experts within or outside the entity.~~
  - How management determines the completeness, relevance and accuracy of the data used to develop accounting estimates.
  - The controls over the review and approval of accounting estimates by appropriate levels of management and, where appropriate, those charged with governance.
  - Other internal controls relevant to the accounting estimation process.

#### Use of Experts

25. Management may have, or the entity may employ individuals with, the experience and competence necessary to make the required accounting estimates. In some cases, however, management may need to engage an expert to make, or assist in making, the accounting estimate. This may arise because of the complexity of matter requiring estimation, for example the measurement of mineral or hydrocarbon reserves in extractive industries, or because of the unusual or infrequent nature of the condition, transaction or event giving rise to the need to make an accounting estimate.
26. In smaller entities, the circumstances that give rise to the need for an accounting estimate often are such that the owner-manager ordinarily is capable of making the required accounting estimate. In some cases, however, an expert is needed to make, or assist in making, the accounting estimate, 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 accounting estimates and the adequacy of the process to make them assists the owner-manager in determining the need, and making necessary arrangement for, the use of an expert.

### Assumptions

2725. In obtaining an understanding of the assumptions underlying the accounting estimates, the auditor considers how management determines that the estimates are based on assumptions that are internally consistent and conform to the entity's business plans and the external environment.

2849. In developing many accounting estimates, management makes assumptions about matters both within and outside its control. Examples of assumptions outside the control of management include: interest rates, exchange rates, mortality rates, inflation rates, and potential judicial or regulatory actions.

### Consistency of Methods and Changes in Accounting Estimates

29. Once management has selected a specific estimation method, it is important that the entity consistently apply the method and that changes in the environment or circumstances affecting the entity or changes in the entity's applicable financial reporting framework be considered. If management has changed the method for making an accounting estimate, it is important that management can demonstrate that the method to which it has changed provides a more appropriate basis of measurement, or that the change is supported by a change in the applicable financial reporting framework, or a change in circumstances.

3089. In obtaining an understanding of how management made an accounting estimate, the auditor considers whether there has been a change in, or re-estimation of, that accounting estimate from the prior period. Where there has been no change in circumstances or new information upon which the change or re-estimation is based, the change is considered arbitrary. ~~An accounting estimate is also misstated if management arbitrarily changes the accounting estimate from the prior period—that is, there has been no change in circumstances or new information upon which the change is based.~~ Arbitrary changes in an accounting estimate result in inconsistent financial statements over time, in that recognized income would change without any corresponding improvement in the underlying quality of the entity's earnings.

3190. Arbitrary changes ~~by management in an accounting estimate, however,~~ are unlikely to be common. Management often is able to demonstrate good reason for a change in 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, is a matter of judgment.

### Estimation Uncertainty

3226. In obtaining an understanding of whether, and if so how, management has assessed the effect of estimation uncertainty, the auditor considers matters such as:



- Whether and how management has considered alternative assumptions or outcomes by, for example, ~~Whether management has~~ 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 that there may be 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.

### Reviewing the Outcome or Re-Estimation of Prior Period Accounting Estimates

3327. The outcome of the condition, transaction or event that gave rise to an accounting estimate will often differ from the accounting estimate recognized in the prior period financial statements. ~~This does not necessarily mean that there was a misstatement in the prior period's financial statements.~~ By performing risk assessment procedures to identify and understand the reasons for any such differences ~~between the actual outcome and the prior period's accounting estimate, however,~~ 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 period 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.
- Information indicating possible management bias.

~~28. Where there has been a difference in outcome, the auditor considers whether the difference represents a misstatement of the prior period financial statements by referring to the financial reporting framework, and determines whether any corrections or disclosures are required in the financial statements.~~

3430. The review of the outcome or re-estimation of prior period accounting estimates may assist the auditor in identifying circumstances or conditions that increase the susceptibility of an accounting estimate to, or indicate the presence of, possible management bias. The auditor's attitude of professional skepticism is an important factor in identifying such circumstances or conditions and in determining the nature, timing and extent of further audit procedures. This review also assists the auditor in understanding whether there has been a change in, or re-estimation of, an accounting estimate from the prior period, and management's basis thereof. However, the review is not intended to call into question the auditor's professional judgments made in the prior year that were based on information available at the time.

3534. A similar retrospective review is required by ISA 240. 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 result in material misstatements due to fraud, in response to the risks of management override of controls. In the course of the auditor's review of the outcome, or re-

~~estimation, of accounting estimates, the auditor recognizes that fraudulent financial reporting is often accomplished through intentional misstatement of accounting estimates. However, as a practical matter, Therefore,~~ 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 is usually carried out in conjunction with the review required by ~~ments of paragraph 80(b) of~~ ISA 240.

3629. 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. A change in an accounting estimate that results from changes in the circumstances on which the accounting estimate was based, or from new information or more experience, does not represent the correction of a misstatement in the prior period's financial statements. However, subsequent changes in accounting estimates may such differences may indicate a misstatement in prior period financial statements if, for example, the difference arises from information that was available to management when the prior period's financial statements were finalized (and of for ~~which~~ the auditor was not aware provided knowledge of), or that could reasonably be expected to have been obtained and taken into account in preparing and presenting those financial statements. Such circumstances provide evidence of misstatements in prior period financial statements. These misstatements include errors such as those resulting from the effects of mathematical mistakes, mistakes in applying accounting policies, oversights or misinterpretation of facts, and fraud. Many financial reporting frameworks contain guidance on distinguishing between changes in accounting estimates that constitute misstatements and changes in accounting estimates that do not constitute misstatements, and the accounting treatment required to be followed.

## Assessment of the Risks of Material Misstatement

3732. ISA 315 requires the auditor, as part of the risk assessment, to identify and assess the risks of material misstatement at the assertion level and to determine which of the identified risks are, in the auditor's judgment, significant risks.
3833. In assessing the risks of material misstatement, the auditor considers the existence of factors indicating estimation uncertainty, and the degree of susceptibility to bias. Factors affecting estimation uncertainty include, but are not limited to, the following:
- The extent to which the accuracy of an accounting estimate depends on management's judgment about the outcome of uncertain future conditions, transactions or events.
  - The degree of sensitivity of the accounting estimate to changes in assumptions.
  - The existence of recognized measurement techniques that may mitigate the estimation uncertainty.
  - The relevance of data drawn from past events to predict future events.
3934. Matters that the auditor considers in assessing the risks of material misstatement may also include the influence of such matters as:

- The actual or expected magnitude of an estimate;
- The recorded amount of the estimate in relation to the amount expected by the auditor to be recorded; and
- The outcome of prior year estimates review.

**4035. Using information gathered from the risk assessment procedures, the auditor should determine which accounting estimates have high estimation uncertainty and may, therefore, give rise to significant risks.**

**4136. Examples of estimates that may have high estimation uncertainty include the following:**

- Accounting estimates that are highly dependent upon management's judgment of the outcome of uncertain future conditions, transactions or events.
- Accounting estimates that are not capable of being calculated from recognized measurement generally-accepted techniques or derived with some degree of precision from available data.
- Accounting estimates where the results of the auditor's review of the outcome, or re-estimation, of accounting estimates made in the prior period financial statements indicate a substantial difference between the original estimate and the outcome.

**4237. In determining which accounting estimates have high estimation uncertainty, the auditor disregards the materiality of the amount currently recognized or disclosed in the financial statements. This is because even a seemingly immaterial estimate may have high estimation uncertainty. the potential to result in material misstatement because of the estimation uncertainty associated with the estimation. An immaterial estimate with estimation uncertainty that would not result in the potential for the estimate to become material, however, would not pose a risk of material misstatement.**

**4338. In some circumstances, the estimation uncertainty is so high that a reasonable estimate cannot be made. The applicable financial reporting framework may, therefore, preclude recognition of the item in the financial statements. In such cases, the significant risks relate not only to whether an accounting estimate should be recognized but also to the adequacy of the disclosures. With respect to such accounting estimates, the financial reporting framework may require disclosure of the accounting estimates and the high estimation uncertainty associated with them (see paragraphs 7990-8393).**

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

**45. In some cases, the estimation uncertainty of an accounting estimate may give rise to a material uncertainty that may cast significant doubt on the entity's ability to continue as a going concern. ISA 570, "Going Concern" established standards and provides guidance in such circumstances.**

## Responses to the Risks of Material Misstatement

**4639.** ISA 330, “The Auditor’s Procedures in Response to Assessed Risks” 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. This ISA focuses on specific responses at the assertion level only.

**4740.** In response to the assessed risks of material misstatement of an accounting estimate, the auditor should perform one or more of the following procedures:

- (a) Determine whether events occurring up to the date of the auditor’s report confirm, or contradict, the accounting estimate.
- (b) Test how management’s ~~process used to make~~ the accounting estimate and the data on which it is based.
- (c) Test the operating effectiveness of the controls over how management’s ~~process for making~~ the accounting estimate, together with appropriate substantive procedures.
- (d) ~~Develop~~Make, or use an expert to develop~~make~~, a point estimate or a range for comparison with~~to evaluate~~ management’s point estimate.

**4841.** The auditor’s decision as to which of the procedures, individually or in combination, to perform is a matter of judgment. This decision, ~~however~~, is influenced by such matters as:

~~•The engagement circumstances:~~

- The nature of the 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.

Additional guidance explaining the circumstances in which each of the procedures may be performed is provided below.

## Events Occurring Up to the Date of the Auditor’s Report

**4942.** Determining whether events occurring up to the date of the auditor’s report confirm, or contradict, the accounting estimate may be an appropriate response ~~to assessed risks of material misstatement~~, when such events are expected to:

- occur; and
- provide audit evidence regarding the measurement of an accounting estimate such as to remove the need to perform additional procedures on the estimate; ~~and~~

~~—there is a long period after the balance sheet date available for review of such events by the auditor, which may be the case in the audit of some smaller entities.~~

43. 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. For such events to remove the need to perform additional audit procedures on the estimate, the auditor obtains sufficient appropriate evidence about the events.
50. In the case of some smaller entities, this procedure may be particularly effective where there is a long period after the balance sheet date available for review of such events by the auditor.
5144. When events contradict the accounting estimate made, the auditor considers whether this may be indicative of management having ineffective processes for the making of accounting estimates.
5245. For some accounting estimates, ~~often those that give rise to significant risks,~~ it may be unlikely that events occurring up to the date of the auditor's report will confirm, or contradict, the accounting estimate, as conditions or events relating to some accounting estimates often develop only over an extended period of time. ~~This may be the case for accounting estimates that relate to long-term assets or liabilities, where events occurring up to the date of the auditor's report, if any, may provide only additional audit evidence about the estimate.~~ In such cases, the auditor may need, choose ~~instead,~~ to perform one or more of the other procedures identified in paragraph 4740.
5346. A decision by the auditor not to determine whether events occurring up to the date of the auditor's report confirm, or contradict, the accounting estimate does not relieve the auditor from complying with ISA 560, "Subsequent Events." ISA 560 requires the auditor to design procedures to obtain audit evidence that all events up to the date of the auditor's report that may require adjustment of, or disclosure in, the financial statements have been identified. Because the measurement of accounting estimates usually depends on the outcome of future conditions, transactions or events, the auditor's work under ISA 560 is particularly relevant.

#### Testing How Management Made the Accounting Estimate's Process

5447. Testing how management made the process used by management to develop ~~the accounting estimate~~ may be an appropriate response 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 accounting estimates of a similar nature 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.
5548. Testing how management made the process used to make ~~the accounting estimate~~ ordinarily involves:

- Testing the extent to which ~~the both~~ internal and external data on which the accounting estimate is based, is accurate, complete and relevant, and whether the estimate has been properly determined using such data and management assumptions;
- Verifying the source of relevant external data;
- Recalculating the accounting estimate, and reviewing information about an accounting estimate for internal consistency;
- Considering whether the significant assumptions made by management provide a reasonable basis for the accounting estimate (see paragraphs 57-61);
- Considering management's review and approval processes; and
- Considering whether there are any indicators of possible management bias in the making of the accounting estimate (see paragraphs ~~9298-94100~~).

56. In smaller entities, the making of accounting estimates by management is likely to be less formal and less structured than in larger entities. Smaller entities with active management involvement may not need extensive descriptions of accounting procedures, sophisticated accounting records, or written policies. Even if the entity has no formal process, it does not mean that management is not able to provide a basis upon which the auditor can test the accounting estimate. In some cases, however, the auditor may be unable to obtain sufficient appropriate audit evidence, in which case the auditor may need, instead, to perform one or more of the other procedures identified in paragraph 47.

5750. The auditor considers the assumptions, collectively and individually, in evaluating whether they reasonably support the accounting estimates. Assumptions are frequently interdependent, and therefore need to be internally consistent. An assumption that may appear reasonable when taken in isolation may not be reasonable when used in conjunction with other assumptions, either for that estimate or for other estimates. Assumptions made by an expert used by management to assist in making accounting estimates are ordinarily treated as though they were management's. The auditor's consideration of the evidence supporting management's assumptions may result in the auditor identifying that one or more of management's assumptions is not suitable for purposes of making the accounting estimate.

58. The assumptions on which accounting estimates are based ordinarily reflect what management expects will be the outcome of specific objectives and strategies. To be reasonable, such assumptions, individually and taken as a whole, also need to be realistic and consistent with:

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



5952. ~~The Significant~~ assumptions used often reflect management's intent to carry out courses of action relevant to the accounting estimate. Management often documents plans and intentions relevant to specific assets or liabilities and the financial reporting framework may require it to do so. While the extent of audit evidence to be obtained about management's intent is a matter of professional judgment, the auditor's procedures ordinarily 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, minutes, etc.
- Considering management's stated 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.

6053. The auditor's consideration of management's assumptions ~~is can be~~ 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 management's assumptions underlying the accounting estimates and disclosures.

6154. The auditor's testing of how management made ~~the process used to develop~~ an accounting estimate may suggest or establish that its reliability is highly dependent on management's assumptions, indicating one or more significant assumptions, or 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 6376-8393.

### Testing the Operating Effectiveness of ~~the Controls Over the Process~~

6256. Testing the operating effectiveness of the controls over how management made the accounting estimate ~~the process~~ may be an appropriate response when, 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.

63. 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 control that exists by way of active management involvement in the financial reporting. In the case of very small entities, however, there may not be many controls that could be identified by the auditor. For this reason, the auditor's procedures in response to the assessed risks are likely to be substantive in nature, with the auditor performing one or a combination of the other procedures in paragraph 47.

6455. Testing the operating effectiveness of the controls is required however, in accordance with ISA 330, requires the auditor to perform tests of controls when:



- (a) The auditor's assessment of risks of material misstatement at the assertion level is based on an expectation that controls over the process are operating effectively; or
- (b) Substantive procedures alone do not provide sufficient appropriate audit evidence at the assertion level. ~~As described in more detail in paragraphs 115-118 of ISA 315, audit evidence may be available only in electronic form such that its sufficiency and appropriateness depend on the effectiveness of controls over its accuracy and completeness.~~

6557. When performing tests of the operating effectiveness of controls, the auditor obtains audit evidence about how controls were applied at relevant times during the period under audit, the consistency with which they were applied, and by whom or by what means they were applied. Standards and guidance on testing controls is set out in paragraphs 28-47 of ISA 330.

6658. When the auditor has assessed the identified risk as a significant risk, the auditor is required, to the extent not already done, to evaluate the design of the entity's controls, including relevant control procedures, and determine whether they have been implemented (see paragraph 113 of ISA 315). Further, if the auditor intends to rely on the entity's controls, the auditor is required to obtain audit evidence about the operating effectiveness of internal controls (on which the auditor plans to rely) from tests of controls performed in the current period (see paragraph 44 of ISA 330).

#### **The Auditor's Developing Making-of A Point Estimate or Range**

6759. Developing Making a point estimate ~~(for example, by using a model available in the sector or industry, an auditor-developed model, or otherwise)~~ or a range to compare with 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 accounting estimates of a similar nature 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 the management's point estimate.
- There are alternative sources of relevant data available to the auditor (but not used by management) which can be used in making a point estimate.

68. In some cases, even when the entities controls are well designed and properly implemented, developing a point estimate or a range may be a more effective or efficient procedure in responding to the assessed risks. In other situations, the auditor may consider performing this procedure as part of determining whether further procedures are necessary and if so, their nature and extent.

69. 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 the sensitivity of the point estimate to 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.
7075. The auditor may develop a point estimate or a range ~~of reasonable outcomes~~ in a number of ways, for example by:
- Using a model, proprietary or commercial, into which the auditor introduces entity-specific data. The model used may be, 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 specialized expertise to develop or execute the model, or to provide relevant assumptions.
  - ~~In determining a range of reasonable outcomes, the auditor takes into account considerations similar to those that apply to the making of the auditor's point estimate described in paragraphs 59-62.~~
7160. When the auditor makes a point estimate or a range, the auditor may use assumptions different from those used by management. In such circumstances, to the extent not already done so by the auditor, the auditor ~~still~~ obtains an understanding of management's assumptions in order to establish that the auditor's model takes into account relevant variables, and to be able to understand and evaluate any significant differences from management's point estimate. The auditor also establishes that the underlying internal data used in making the point estimate is reliable. ~~62. Further, t~~The making of a point estimate or a range by the auditor may reveal that the reliability of an accounting estimate is highly sensitive to certain assumptions and therefore subject to high estimation uncertainty. This ~~may would~~ indicate that the accounting estimate may be a significant risk.
7264. The auditor may have the necessary skill and knowledge to make a point estimate or a range, or may decide to use the work of an expert. When using the work of an expert, the auditor obtains sufficient appropriate audit evidence that such work is adequate for the purposes of the audit, and complies with the requirements of ISA 620, "Using the Work of an Expert."
73. The ability for 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 financial reporting framework, which may prescribe the point estimate that is to be used after consideration of the alternative outcome and assumptions.

7472. ~~When the auditor develops a range with which to evaluate the reasonableness of management's point estimate (the 'auditor's range'), to be useful to the auditor as an evaluation tool, the range cannot be one that comprises of reasonable outcomes is not the range of all possible outcomes. Such a range would be too wide to be effective for purposes of the audit as it would include too many unlikely outcomes. The auditor's range is useful and effective when it is To determine a range of reasonable outcomes that is~~ sufficiently narrow to be able to identify a material misstatement. This is achieved by ~~be useful, the auditor narrowing the range by~~ eliminating~~ges~~ from the range those outcomes at the extremities of the range judged by the auditor to be unlikely to occur ~~to arrive at a range containing outcomes that are as likely as not to occur,~~ and by continuing to narrow the range, based on audit evidence available, to the point where:

- ~~The audit evidence indicates that there is one outcome within the range that is likely to occur; or~~
- ~~The auditor is unable to, based on the audit evidence, distinguish further the relative likelihood of occurrence of the remaining outcomes, and accordingly all outcomes within the range are considered equally likely to occur.~~

7573. ~~In narrowing the range of outcomes, the aim is to identify~~ Ordinarily, a range ~~that has been narrowed to the point of being of reasonable outcomes that is~~ equal to or less than ~~the amount lower than materiality determined for purposes of assessing risks and designing further audit procedures [tolerable error]<sup>2</sup> 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 estimate. Ordinarily, such a range is adequately narrow for the purposes of evaluating the reasonableness of management's point estimate. There may be circumstances, however, where the auditor's range is greater than tolerable error. This fact does not necessarily preclude recognition of the estimate nor does it indicate that the outcomes within that range are not reasonable. It may indicate, however, that the estimation uncertainty associated with the estimate is such that it gives rise to a significant risk. Further, in such cases, the auditor considers whether recognition criteria and disclosure requirements of the financial reporting framework have been met (see paragraphs 7787-8389).~~

~~74. In cases where the range is greater than tolerable error, the auditor considers whether recognition criteria and disclosure requirements of the financial reporting framework have been met (see paragraphs 77-83).~~

~~76. If management's point estimate is not within the auditor's range of reasonable outcomes, the auditor seeks to understand why. In some cases, this may lead the auditor to narrowing the range of reasonable outcomes with the aim of reducing it below tolerable error, where practicable.~~

<sup>2</sup>

~~See [Proposed] ISA 320, XXX, ["Materiality in Planning and Performing the Audit,,"] defines tolerable error as "the largest possible misstatement of a class of transactions, account balance or disclosure that, when aggregated with misstatements in other classes of transactions, account balances or disclosures, would not create an unacceptable risk of material misstatement of the financial statements."~~

## Further Substantive Procedures to Respond to Significant Risks

- 7663.** ISA 330 requires the auditor to perform substantive procedures that specifically respond to significant risks. In the context of the audit of estimates, the ~~auditor's purpose of~~ further substantive procedures ~~are is~~ 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 estimate in the financial statements and the adequacy of related disclosures.

### Estimation Uncertainty

- 7764.** For accounting estimates that give rise to significant risks, in addition to other substantive procedures performed to meet the requirements of ISA 330, the auditor should evaluate:
- (a) ~~Whether and how~~ Whether management has considered alternative assumptions or outcomes, and why they have rejected them, or otherwise has addressed the effects of estimation uncertainty on the accounting estimates; and
  - (b) ~~To the extent not already done so by the auditor, whether~~ Whether the significant assumptions made by management ~~taken individually, and as a whole,~~ provide a reasonable basis for the accounting estimate, including, where relevant, management's intent to carry out specific courses of action and its ability to do so.

### Management's Consideration of Estimation Uncertainty

- 7866.** Management may evaluate alternative assumptions or outcomes of the accounting estimates through a number of methods, depending on the circumstances. One method used by management to do so is by undertaking a sensitivity analysis, which as a way of analyzing uncertainty by changing inputs. Such a sensitivity analysis might involve determining the degree of variation in the monetary amount of an accounting estimate from varying 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. ~~A series of outcome scenarios sometimes are characterized as a range of outcomes by management.~~
- 7967.** A sensitivity analysis may demonstrate that the outcome of an accounting estimate is not sensitive to changes in particular assumptions. Alternatively, it may demonstrate that the outcome is sensitive to one or more particular assumptions that then become the focus of the auditor's attention.
- 68.** ~~The point estimate to be used by management, after consideration of alternative assumptions or outcomes is, in some cases, established by the requirements of the applicable financial reporting framework. In some cases, the most likely outcome is required by the applicable financial reporting framework to be used as the point estimate.~~
- 80.** Management's consideration of alternative assumptions or outcomes may not be a formal process supported by extensive documentation, particularly in smaller entities. Smaller entities may use less formal means and simpler procedures to assess the estimation uncertainty. In these circumstances, in addition to the auditor's review of available documentation, the auditor generally obtains audit evidence of management consideration of

alternative assumptions or outcomes by inquiry of management. It is management's thoughtful assessment of how estimation uncertainty may affect the accounting estimate that is important, not the specific manner in which that is done.

~~8170.~~ In some circumstances, management may not have the expertise and experience to ~~address~~assess the estimation uncertainty of the accounting estimate ~~by performing, for example, a sensitivity analysis~~. In such cases, the auditor may explain to management the process, and the different methods available, for doing so and the documentation thereof. ~~Such circumstances may arise, for example, in the audit of a smaller entity. In some cases, management may need to engage an expert to assist.~~

~~82.~~ Where management has not considered alternative assumptions or outcomes, the auditor requests that management support how it has addressed the effects of estimation uncertainty on the accounting estimate.

~~8369.~~ ~~Where management has not considered alternative assumptions or outcomes, the auditor should request that management support whether and how it has assessed the effects of estimation uncertainty on the accounting estimate. Where the auditor has not obtained sufficient appropriate audit evidence, even after management has assessed the effects of estimation uncertainty, 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 should consider whether it is necessary to develop a range ~~of reasonable outcomes~~ with which to evaluate the reasonableness of the accounting estimate, to the extent not already done so.

~~71.~~ ~~In some cases, the auditor may conclude that it is necessary to develop independently a "range of reasonable outcomes" with which to evaluate the reasonableness of management's point estimate. For example, even though management has provided information it believes supports the estimate, the auditor may consider it necessary to develop a range of reasonable outcomes in order to obtain a different perspective on the estimation uncertainty associated with the estimate.~~

~~8475.~~ The auditor's considerations ~~in~~ determining a range for this purpose are of reasonable outcomes, the auditor takes into account considerations similar to those that apply to the making of the auditor's point estimate described in paragraphs ~~5970-6275~~.

### Significant Assumptions

~~8565.~~ 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 estimates. ~~It is likely that the auditor will already have undertaken this work if the auditor has decided to test management's process as a response to the assessed risk of material misstatement. Guidance on the auditor's evaluation of significant assumptions is provided in paragraphs 50-53. 51.~~ Support for significant assumptions derived from management's knowledge can usually be obtained from management's continuing processes of strategic analysis and risk management. Even without formalized processes, which may be the case in smaller entities, the auditor may be able to evaluate the assumptions through inquiries of, and discussions with, management and external corroborative procedures such as obtaining confirmations from legal counsel.

86. The auditor's considerations in evaluating whether the significant assumptions made by management provide a reasonable basis for the accounting estimate, including management's ability and intent, where relevant, are described in paragraphs 57-60.

### **Recognition of the Accounting Estimates in the Financial Statements**

877. **For accounting estimates that give rise to significant risks, the auditor should ~~perform procedures to~~ evaluate whether the audit evidence obtained is sufficient and appropriate to support management's decision as to whether or not to recognize the accounting estimate in the financial statements in accordance with the recognition criteria of the applicable financial reporting framework.**
8878. Where management has recognized an accounting estimate in the financial statements, the auditor evaluates whether its measurement is sufficiently reliable to meet the recognition criteria of the applicable financial reporting framework. The auditor also evaluates whether the measurement of an accounting estimate that has not been recognized is, in fact, sufficiently reliable to meet the recognition criteria of the applicable financial reporting framework.
8979. With respect to accounting estimates that have not been recognized, the auditor considers the adequacy of the disclosures in the notes to the financial statements and also whether to modify the auditor's report, to draw the reader's attention to the significant uncertainty, by adding an emphasis of matter paragraph. [Proposed] ISA 706, "Emphasis of Matter Paragraphs and Other Matters Paragraphs in the Independent Auditor's Report," provides standards and guidance concerning such paragraphs.

### **Disclosures of Estimation Uncertainty**

9080. **For accounting estimates that give rise to significant risks, the auditor should determine whether the applicable financial reporting framework requires disclosure of estimation uncertainty and, if so, evaluate the adequacy of such disclosure.**
9184. The presentation of financial statements in conformity with the applicable financial reporting framework includes adequate disclosure of material matters. In relation to 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 is particularly important when management's point estimate falls within the auditor's range ~~of reasonable outcomes~~ that is greater than the amount lower than materiality determined for purposes of assessing risks and designing further audit procedurestolerable error.
9282. The auditor also considers any additional requirements of the applicable financial reporting framework for disclosures regarding uncertainties. For example, some financial reporting frameworks prescribe the disclosure of key assumptions about the future 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."



- 9383.** Where the applicable financial reporting framework does not prescribe disclosure of estimation uncertainty, the auditor nevertheless encourages management to describe, in the notes to the financial statements, the circumstances relating to the estimation uncertainty. **[Proposed]** ISA 705, “Modifications to the Opinion in the Independent Auditor's Report” 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.

## Evaluating ~~Audit Evidence and Concluding on~~ the Reasonableness of the Accounting Estimates and Determining Misstatements

- 9484.** The auditor should evaluate, based on the ~~sufficiency and appropriateness of~~ audit evidence, ~~as to whether~~ the accounting estimates and related disclosures in the financial statements are either reasonable in the context of the entity’s applicable financial reporting framework, or are misstated.

### Determining Misstatements

- 9586.** Based on the audit evidence obtained, ~~t~~The auditor may conclude that the evidence points to an estimate that differs from management’s point estimate, and that the difference between the auditor’s estimate or range and management’s point estimate constitutes a financial statement misstatement. ~~88. In some cases, it may be possible that the audit evidence obtained may enable the auditor to ascertain~~ In such cases, where the auditor has developed a range of reasonable outcomes, but not to determine a specific point estimate from within that range, –A misstatement exists when management’s point estimate lies outside such the auditor’s a range of reasonable outcomes, and The misstatement is measured as the difference between management’s point estimate and the nearest point of the auditor’s range of reasonable outcomes. ~~In other cases, audit evidence may exist enabling the auditor to make a probability assessment concerning the likelihood of various outcomes within the range of reasonable outcomes. Where~~ The auditor is therefore able to determine a point estimate for comparison with that of management’s. In such cases, the difference between the auditor’s point estimate and management’s point estimate constitutes a financial statement misstatement. Further, where there has been a change in an accounting estimate from the prior period, the auditor may conclude that the accounting estimate is misstated as a result of an arbitrary change by management.

- 9687.** A ~~Such~~ misstatement, whether caused by fraud or error, may arise as a result of:

- Misstatements about which there is no doubt ~~Mistakes in gathering or processing data, and the overlooking or clear misinterpretation of facts~~ (factual misstatements).
- Differences arising from management’s judgments concerning accounting estimates (judgmental misstatements).
- Projecting misstatements identified in audit samples to the entire populations from which the samples were drawn ~~Misstatements, which, when taken together with the aggregate misstatements of fact and misstatements involving subjective decisions, the auditor projects, based on an extrapolation from audit evidence obtained, may exceed materiality with a greater than acceptable low level of risk~~ (projected misstatements).



In some cases, a misstatement could arise as a result of a combination of these circumstances such that to which separate identification is difficult or impossible. ISA XXX, [~~“Aggregating and Evaluating Misstatements”~~], ~~establishes~~ provides standards and provides guidance on classifying misstatements for purposes of the auditor’s evaluation of the effect of uncorrected misstatements on the financial statement ~~of all misstatements identified during the audit, including those relating to accounting estimates.~~

9785. ~~If the auditor concludes, based on audit procedures undertaken, that management has not adequately supported the reasonableness of the accounting estimate or if the auditor believes that management has failed to consider information that is reasonably available to it, the auditor should consider the implications for the auditor’s report. 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 establishes~~ provides standards and provides guidance regarding expressing either a qualified opinion or disclaimer of opinion in these circumstances, ~~when it is not possible for the auditor to obtain sufficient appropriate audit evidence about matters that could be material to the financial statements.~~

~~91. Based on audit evidence obtained, the auditor concludes whether an accounting estimate and related disclosures made by management are reasonable in the context of the entity’s applicable financial reporting framework.~~

## Indicators of Possible Management Bias

9892. The auditor should determine whether there are indicators of possible management bias in the making of accounting estimates.

9993. The auditor considers whether judgments and decisions made by management give rise to indicators of possible management bias. Such indicators of possible management bias do not constitute misstatements for purposes of drawing conclusions on the reasonableness of individual accounting estimates. However, the presence of indicators of possible management bias may affect the auditor’s conclusion as to whether the auditor’s risk assessment remains 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 of material misstatement. ISA XXX, [~~“Aggregating and Evaluating Misstatements”~~], ~~establishes~~ provides standards and provides guidance on these considerations.

10094. Examples of indicators of possible management bias with respect to accounting estimates that the auditor may identify during the evaluation of audit evidence include:

- Changes in an accounting estimate where management’s interpretation and assessment of whether there has been a change in circumstances is subjective.
- Selection or construction of significant assumptions that yield a point estimate favorable for management objectives.
- 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.

## Management Representations

**10195.** The auditor should obtain written representations from management regarding the reasonableness of significant assumptions used by them in making accounting estimates, including whether they 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.

**10296.** ISA 580, "Management Representations" discusses the use of management representations. Depending on the nature, materiality and extent of estimation uncertainty, management representations about accounting estimates recognized or disclosed in the financial statements may include representations:

- About the appropriateness of the measurement processes, including related assumptions, 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 disclosures related to accounting estimates are complete and appropriate under the entity's financial reporting framework; and
- That no subsequent events require adjustment to the accounting estimates and disclosures included in the financial statements.

## Documentation

**10397.** ~~In addition to the documentation requirements set out in ISA 230, "Audit Documentation," and those specified in ISA 315 and ISA 330, t~~The auditor should document:

- (a) The basis for the auditor's conclusions about the reasonableness of accounting estimates that give rise to significant risks~~Misstatements identified by the auditor;~~ and
- (b) Indicators of possible management bias.

**10499.** The auditor's documentation of the following is carried out as part of the documentation requirements of ISA 315 and ISA 330:

- a) The results of the auditor's risk assessment procedures.
- b) The assessed risks of material misstatement of accounting estimates at the assertion level, and the nature, timing and extent of further audit procedures responsive to the assessed risks.
- c) The results of tests of controls and substantive procedures responsive to significant risks.

**10598.** ~~ISA 230 requires t~~The auditor ~~to~~ documentation of significant matters arising during the audit, and conclusions thereon, which are important in providing audit evidence to support the auditor's opinion, is carried out in accordance with ISA 230, "Audit Documentation."

~~Depending on the circumstances, the auditor's documentation may therefore include documentation relating to:~~

- ~~—Management's decision as to whether or not to recognize the accounting estimate in the financial statements.~~
- ~~—The reasonableness of accounting estimates and related disclosures.~~
- ~~—The adequacy of the disclosure of estimation uncertainty.~~

## **Effective Date**

~~106400~~. This ISA is effective for audits of financial statements for periods beginning on or after [date].

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