

**PROPOSED INTERNATIONAL STANDARD ON AUDITING 540
(REVISED and REDRAFTED) (Clean)****AUDITING ACCOUNTING ESTIMATES AND RELATED DISCLOSURES (OTHER
THAN THOSE INVOLVING FAIR VALUE MEASUREMENTS AND DISCLOSURES)****CONTENTS**

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[Note: Highlighted material indicates proposed new requirements as a result of redrafting.]

Introduction

Scope of this ISA

1. This International Standard on Auditing (ISA) deals with the audit of accounting estimates and related disclosures, other than those involving fair value measurements and disclosures, including the determination of misstatements relating to individual accounting estimates, and the consideration and documentation of indicators of possible management bias.
2. ISA 545, “Auditing Fair Value Measurements and Disclosures,” deals with the audit of accounting estimates that involve fair value measurements or disclosures.
3. ISA XXX, [“Evaluation of Misstatements Identified During the Audit”], deals with the auditor’s evaluation of the effect of uncorrected misstatements, including those relating to accounting estimates, on the financial statements, and on the auditor’s evaluation of whether the financial statements as a whole are free of material misstatement.

Nature of Accounting Estimates

4. The making of 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. In addition, the applicable financial reporting frameworks may or may not prescribe specific methods of measurement and the disclosures that are required to be made in the financial statements.
5. Accounting estimates are, therefore, imprecise, subject to varying degrees of estimation uncertainty, and are influenced by management judgment, inherent in which is the potential for unintentional management bias and the potential for intentional management bias. Management bias, whether unintentional or intentional, can be difficult to detect at an account level. Audit evidence available to detect a material misstatement in an accounting estimate will often be more difficult to obtain and less persuasive than audit evidence available to detect a material misstatement in other items in the financial statements. (Ref: Para. A1-A4)

Effective Date

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

Objective to be Achieved

7. In relation to this ISA, the objective of the auditor is to:
 - (a) Identify and assess the risks of material misstatements in accounting estimates, including those arising from estimation uncertainty associated with the accounting estimates;
 - (b) Obtain sufficient appropriate audit evidence about the accounting estimates and related disclosures in the financial statements; and

- (c) Evaluate and conclude on whether the individual accounting estimates and related disclosures in the financial statements are reasonable, in the context of the entity's applicable financial reporting framework.

Definitions

8. 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 amount selected by management for recognition in the financial statements as an accounting estimate is referred to as "management's point estimate."
- (b) "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 for use in evaluating management'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.

Requirements

Risk Assessment Procedures and Related Activities (Ref: Para. A5)

- 9. In order to identify accounting estimates for which there is a risk of material misstatement, the auditor shall:
 - (a) Obtain an understanding of:
 - (i) The requirements of the entity's applicable financial reporting framework relevant to accounting estimates, including whether it prescribes certain conditions for the recognition, or methods for the measurement, of accounting estimates, or specifies required disclosures; (Ref: Para. A6 – A9)
 - (ii) How management identifies those transactions, events and conditions that may give rise to the need for accounting estimates in the financial statements, including:
 - Whether there has been changes in circumstances, and
 - 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; (Ref: Para. A10-A13)
 - (iii) How management made the accounting estimates and the data on which they are based, i.e., management's process used to make accounting estimates, including:

- 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.
 - Relevant internal controls.
 - Whether management has used an expert, either from within or outside the entity.
 - The assumptions underlying accounting estimates, including 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.
 - 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.
 - Whether, and if so how, management has assessed the effect of estimation uncertainty. (Ref: Para. A14-23)
- (b) Review the outcome, or re-estimation, of accounting estimates made in the prior period financial statements. (Ref: Para. A24-A27)
10. The above risk assessment procedures and related activities 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.

Assessment of the Risks of Material Misstatement

11. In assessing the risks of material misstatement, the auditor shall consider:
- (a) The existence of factors affecting estimation uncertainty associated with the accounting estimate. (Ref: Para. A28)
 - (b) The degree of susceptibility to bias.
 - (c) Other matters that may indicate the risk of material misstatement, including:
 - 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.
12. Using information gathered from the risk assessment procedures, the auditor shall determine which accounting estimates have high estimation uncertainty and may, therefore, give rise to significant risks. For this purpose, the auditor shall disregard the materiality of the amount currently recognized or disclosed in the financial statements. (Ref: Para. A29-A33)

Responses to the Risks of Material Misstatements

Procedures in Response to the Assessed Risks of Material Misstatement

13. In response to the assessed risks of material misstatement of an accounting estimate at the assertion level, the auditor shall perform one or more of the following procedures: (Ref: Para. A34)
 - (a) Determine whether events occurring up to the date of the auditor's report confirm, or contradict, the accounting estimate, including, where applicable, obtaining sufficient appropriate evidence about the events to remove the need to perform additional audit procedures on the estimate. (Ref: Para. A35 –A38)
 - (b) Test how management made the accounting estimate and the data on which it is based, including:
 - Determining whether the estimate has been properly determined using such data and management assumptions.
 - Evaluating whether the assumptions, collectively and individually, used by management reasonably support the accounting estimates. (Ref: Para. A39 –A46)
 - (c) Test the operating effectiveness of the controls over how management made the accounting estimate, together with appropriate substantive procedures. (Ref: Para. A47 –A51)
 - (d) Develop, or use an expert to develop, a point estimate or range to evaluate management's point estimate. (Ref: Para. 14-16 (below), and A52 –A60)

Developing a Point Estimate or Range

14. When the auditor develops a point estimate or a range to evaluate management's point estimate, 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 shall:
 - (a) Obtain 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.
 - (b) Establish that the underlying internal data used in making the point estimate is reliable.
15. Where the auditor develops a range to evaluate management's point estimate, the auditor shall narrow the range, based on audit evidence available, to the point where:
 - (a) The audit evidence indicates that there is one outcome within the range that is likely to occur; or
 - (b) 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.

16. Where the auditor's range is greater than the amount lower than materiality determined for purposes of assessing risks and designing further audit procedures¹, the auditor shall consider whether the estimation uncertainty associated with the accounting estimate is such that it gives rise to a significant risk.

Further Substantive Procedures to Respond to Significant Risks (Ref: Para. A61)

17. 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's Procedures in Response to Assessed Risks," the auditor shall evaluate:
- (a) How 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 estimate; and (Ref: Para. A62-A65)
 - (b) To the extent not already done so by the auditor, whether the significant assumptions made by management 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. (Ref: Para. A66-A67)
18. 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 with which to evaluate the reasonableness of the accounting estimate, to the extent not already done so. (Ref: Para. A68)
19. For accounting estimates that give rise to significant risks, the auditor shall evaluate management's conclusion about whether:
- (a) The measurement of the accounting estimates is sufficiently reliable to enable recognition of the accounting estimate in the financial statements in accordance with the recognition criteria of the applicable financial reporting framework, where management has recognized the accounting estimate in the financial statements.
 - (b) The measurement of the accounting estimates is not sufficiently reliable to enable recognition of the accounting estimate in the financial statements in accordance with the recognition criteria of the applicable financial reporting framework, where management has not recognized the accounting estimate in the financial statements.
- In such circumstances, the auditor shall consider:
- (i) The adequacy of the disclosures in the notes to the financial statements; and
 - (ii) Whether to modify the auditor's report, to draw the reader's attention to the significant uncertainty, by adding an emphasis of matter paragraph. (Ref: Para. A69)
20. For accounting estimates that give rise to significant risks, the auditor shall determine whether the applicable financial reporting framework requires disclosure of estimation uncertainty, and, if so, shall evaluate the adequacy of such disclosure. (Ref: Para. A70 –A72)

¹ See ISA 320, "Materiality in Planning and Performing the Audit."

Evaluating the Reasonableness of the Accounting Estimates and Determining Misstatements

21. The auditor shall evaluate, based on the audit evidence obtained, 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. (Ref: Para. A73-A75)
22. The auditor shall treat as a misstatement:
 - (a) Management's point estimate that lies outside such the auditor's range, measured as the difference between management's point estimate and the nearest point of the auditor's range, where the auditor has developed a range.
 - (b) The difference between the auditor's point estimate and management's point estimate, where the auditor has determined a point estimate.
 - (c) A change in an accounting estimate that arises from as a result of an arbitrary change by management.

Indicators of Possible Management Bias

23. The auditor shall determine whether there are indicators of possible management bias [or,...shall determine whether judgments and decisions made by management give rise to indicators of possible management bias] in the making of accounting estimates. (Ref: Para. A76)
24. 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 addresses these considerations.

Management Representations

25. The auditor shall 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. (Ref: Para. A77)

Documentation

26. The auditor shall document:
 - (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. (Ref: Para. A78-A79)

Application Material

Nature of Accounting Estimates (Ref: Para. 4-5)

- A1. Because of the uncertainties inherent in business activities, some financial statement items cannot be measured with precision but can only be estimated involving judgments based on reliable information that is available at the time of preparation of the financial statements. 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
- A2. 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.
- A3. 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.
- A4. 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 (Redrafted), “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 and Related Activities

- A5. ISA 315 (Redrafted), “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. This understanding is obtained by performing risk assessment procedures, which involve gathering, updating and analyzing information throughout the audit.

Obtaining an Understanding of the Requirements of the Financial Reporting Framework (Ref: Para. 9(a)(i))

- A6. An understanding of the requirements of the entity’s applicable financial reporting framework 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.
- A7. 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.
- A8. 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.²
- A9. Financial reporting frameworks may require the disclosure of information concerning the significant assumptions to which the 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.

² Different financial reporting frameworks may use different terminology to describe point estimates determined in this way.

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

(Ref: Para. 9(a)(ii))

- A10. 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.
- A11. 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 financial statements in previous periods. Inquires 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.
 - The requirements of the applicable financial reporting framework 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 understanding 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.

- A12. 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.
- A13. 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.

Obtaining an Understanding of How Management Made the Accounting Estimates (Ref: Para. 9(a)(iii))

- A14. 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.
- A15. Matters that the auditor may consider in obtaining an understanding of how management made the accounting estimates include, for example:
- 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).
 - Whether, and if so how, management has used recognized measurement techniques for making particular accounting estimates.

Relevant Internal Controls

- A16. Matters that the auditor may consider in obtaining an understanding of relevant internal controls include, for example:
- The experience and competence of those who make the accounting estimates.
 - 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

- A17. 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.

Considerations specific to smaller entities

- A18. 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

- A19. 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

- A20. 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 have been 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.
- A21. Obtaining an understanding of whether there has been a change in, or re-estimation of, an accounting estimate from the prior period assist the auditor in determining whether there has been a change in circumstances or new information upon which the change or re-estimation is based, or whether the change is arbitrary. 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.
- A22. Arbitrary changes 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

- A23. 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 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 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 (Ref: Para. 9(b))

A24. 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. 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 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.

A25. 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.
- Understanding whether there has been a change in, or re-estimation of, an accounting estimate from the prior period, and management's basis thereof.

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. 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.

A26. A similar retrospective review is 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 result in material misstatements 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 is usually carried out in conjunction with the review required by ISA 240 (Redrafted).

A27. 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, 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 which the auditor was not aware), 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 in accounting estimates that do not constitute misstatements, and the accounting treatment required to be followed.

Assessment of the Risks of Material Misstatement

Factors Affecting Estimation Uncertainty (Ref: Para. 11(a))

A28. Factors affecting estimation uncertainty may 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.

Estimation Uncertainty and Significant Risks (Ref: Para. 12)

A29. 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 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.

A30. The auditor disregards the materiality of the amount currently recognized or disclosed in the financial statements because even a seemingly immaterial estimate may have the potential to result in material misstatement because of the estimation uncertainty associated with the estimation. An immaterial estimate with estimation uncertain that would not result in the potential for the estimate to become material, however, would not pose a risk of material misstatement.

A31. 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 A70-A72).

- A32. Where the auditor determines that an accounting estimate gives rise to a significant risk, ISA 315 (Redrafted) 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.
- A33. 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," establishes standards and provides guidance in such circumstances.

Responses to the Risks of Material Misstatement (Ref: Para. 13-16)

- A34. The auditor's decision as to which of the procedures, individually or in combination is influenced by such matters as, for example:
- 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 (Ref: Para. 13(a))

- A35. Determining whether events occurring up to the date of the auditor's report confirm, or contradict, the accounting estimate may be an appropriate response 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.

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. Audit evidence that contradicts the accounting estimate may be indicative of management having an ineffective process for making the accounting estimate.

- A36. For some accounting estimates, 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 and events that giving rise to significant risks often develop over an extended period of time. In such cases, the auditor may need, instead, to perform one or more of the other procedures identified in paragraph 13.
- A37. 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.

Considerations Specific to Smaller Entities

- A38. 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.

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

- A39. Testing how management made 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.
- A40. Testing how management made the accounting estimate may involve, for example, the following:
- Testing the extent to which both internal and external data on which the accounting estimate is based, is accurate, complete and relevant;
 - Verifying the source of relevant external data;
 - Recalculating the accounting estimate, and reviewing information about an accounting estimate for internal consistency;
 - 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 paragraph A76).

Assumptions

- A41. 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.

- A42. 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.
- A43. The 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 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, 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.
- A44. The auditor's consideration of management's assumptions 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 management's assumptions underlying the accounting estimates and disclosures.
- A45. The auditor's testing of how management made 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 17-20.

Considerations Specific to Smaller Entities

- A46. 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 is 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 13.

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

- A47. Testing the operating effectiveness of the controls over how management made the accounting estimate 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.
- A48. 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 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.
- A49. When performing tests of the operating effectiveness of controls, ISA 330 (Redrafted) requires the auditor to obtain 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 xx-xx of ISA 330 (Redrafted).
- A50. When the auditor has assessed the identified risk as a significant risk, the auditor is required under ISA 315 (Redrafted), 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 xx of ISA 315 (Redrafted)). Further, if the auditor intends to rely on the entity's controls, the auditor is required, under ISA 330 (Redrafted), 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 xx of ISA 330 (Redrafted)).

Considerations Specific to Smaller Entities

- A51. 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 13.

Developing A Point Estimate or Range (Ref: Para. 13(d) and 14-16)

- A52. Developing a point estimate or a range with which 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.
- A53. 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, particularly significant 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.
- A54. 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.
- A55. The auditor may develop a point estimate or a range 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.
- A56. 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. ISA 620, "Using the Work of an Expert," deals with the auditor's considerations relevant to when the auditor uses the work of an expert.

- A57. 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.
- A58. When the auditor develops a range with which to evaluate the reasonableness of management's point estimate ('the auditor's range'), to be useful, the range cannot be one that comprises all possible outcomes. 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 be able to identify a material misstatement. This may be achieved by narrowing the range by eliminating from the range those outcomes at the extremities of the range judged by the auditor to be unlikely to occur, and by continuing to narrow the range to the extent possible based on audit evidence available.
- A59. Ordinarily, a range that has been narrowed to the point of being equal to or less than the amount lower than materiality determined for purposes of assessing risks and designing further audit procedures³ 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 to range below such an amount. This does not necessarily preclude recognition of the estimate. It may indicate, however, that the estimation uncertainty associated with the estimate is such that it gives rise to a significant risk.
- A60. 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 indicate that the accounting estimate may be a significant risk.

Further Substantive Procedures to Respond to Significant Risks (Ref: Para. 17-20)

- A61. 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 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 estimate in the financial statements and the adequacy of related disclosures.

Management's Consideration of Estimation Uncertainty (Ref: Para. 17(a))

- A62. 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 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

³ See [Proposed] ISA 320, "Materiality in Planning and Performing the Audit."

outcome scenarios, sometimes are characterized as a range of outcomes by management, such as “pessimistic” and “optimistic” scenarios.

- A63. 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.
- A64. 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, audit evidence of management consideration of alternative assumptions or outcomes is generally obtained through 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.
- A65. In some circumstances, management may not have the expertise and experience to address the estimation uncertainty of the accounting estimate. In such cases, the auditor may explain to management the process, the different methods available, for doing so and the documentation thereof, and requests that management to provide the necessary information.

Significant Assumptions (Ref: Para. 17(b))

- A66. 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. 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.
- A67. 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 A41-A46.

Development of a Range (Ref: Para. 18)

- A68. In some cases, the auditor may conclude that it is necessary to develop independently a range with which to evaluate the reasonableness of management’s point estimate, where the auditor has not already done in responding to the risks of material misstatements. The auditor’s considerations in determining a range for this purpose are described in paragraphs 14-16 and A52-A60.

Recognition of the Accounting Estimates in the Financial Statements

Emphasis of Matter Paragraph (Ref: Para. 19)

- A69. [Proposed] ISA 706, “Emphasis of Matter Paragraphs and Other Matters Paragraphs in the Independent Auditor’s Report,” establishes standards and provides guidance concerning such paragraphs.

Disclosures of Estimation Uncertainty (Ref: Para. 20)

- A70. 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 that is greater than the amount lower than materiality determined for purposes of assessing risks and designing further audit procedures.
- A71. In some cases, the applicable financial reporting framework may specify additional requirements 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."
- A72. [Proposed] ISA 705, "Modifications to the Opinion in the Independent Auditor's Report," deals with 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 the Reasonableness of the Accounting Estimates and Determining Misstatements (Ref: Para. 21-22)

- A73. Based on the audit evidence obtained, 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 estimate constitutes a financial statement misstatement.
- A74. 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 (judgmental misstatements).
 - Projecting misstatements identified in audit samples to the entire populations from which the samples were drawn (projected misstatements).

In some cases, a misstatement could arise as a result of a combination of these circumstances such that separate identification is difficult or impossible. ISA XXX deals with classifying misstatements for purposes of the auditor's evaluation of the effect of uncorrected misstatements on the financial statement.

- A75. 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 deals with the auditor's consideration of the expression of either a qualified opinion or disclaimer of opinion in these circumstances.

Indicators of Possible Management Bias (Ref: Para. 23-24)

A76. 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 (Ref: Para. 25)

A77. 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 (Ref: Para. 26)

A78. The auditor's documentation of the following is carried out as part of the documentation requirements of ISA 315 (Redrafted) and ISA 330 (Redrafted):

- (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.

A79. The auditor's 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 (Revised), "Audit Documentation."

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