A Framework for Evaluating

Process/Transaction-Level Exceptions and Deficiencies

Version 1

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This framework is intended to be used for process/transaction level exceptions and deficiencies and may be updated in the future to include frameworks related to other exceptions and deficiencies.
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**Introduction and Purpose**

This paper outlines a suggested framework for evaluating manual and automated process/transaction-level exceptions and deficiencies resulting from the evaluation of a company’s internal control over financial reporting. This paper should be read in conjunction with Auditing Standard No. 2, *An Audit of Internal Control Over Financial Reporting Performed in Conjunction With an Audit of Financial Statements* (AS2), especially the definitions in paragraphs 8 through 10, the section on evaluating deficiencies in paragraphs 130 through 141, the examples of significant deficiencies and material weaknesses in Appendix D, and the Background and Basis for Conclusions in Appendix E. The framework is not a substitute for AS2 and other relevant professional literature.

Issuers and auditors may find this framework useful. It is not intended to, and should not, be utilized when evaluating control deficiencies in IT general controls and other types of exceptions and deficiencies.

The framework was developed by representatives of the following nine firms:

- BDO Seidman LLP
- Crowe Chizek and Company LLC
- Deloitte & Touche LLP
- Ernst & Young LLP
- Grant Thornton LLP
- Harbinger PLC
- KPMG LLP
- McGladrey & Pullen LLP
- PricewaterhouseCoopers LLP

In addition, William F. Messier, Jr., Professor, Georgia State University, also contributed to the development of the framework.

This framework reflects their views on a framework consistent with their understanding of AS2.

The framework represents a thought process that will require significant judgment. The objective of the framework is to assist knowledgeable and experienced individuals in evaluating deficiencies in a consistent manner. The mere mechanical application of this framework will not, in and of itself, necessarily lead to an appropriate conclusion. Because of the need to apply judgment and to consider and weigh quantitative and qualitative factors, different individuals evaluating similar fact patterns may reach different conclusions.

The framework recognizes the requirement in AS2 to consider likelihood and magnitude in evaluating deficiencies. It also recognizes that AS2.136 states:

> In evaluating the magnitude of the potential misstatement, the auditor should recognize that the maximum amount that an account balance or total of
transactions can be overstated is generally the recorded amount. However, the recorded amount is not a limitation on the amount of potential understatement. The auditor also should recognize that the risk of misstatement might be different for the maximum possible misstatement than for lesser possible amounts.

The framework applies these concepts through the evaluation of a combination of magnitude and likelihood. Because of the wide variety of control types, population characteristics, and test exception implications, the group did not undertake to develop a purely quantitative model. Instead, the framework considers quantitative and qualitative factors.

Other key assumptions considered in developing the framework include:

- The testing of controls generally relates to significant processes and major classes of transactions for relevant financial statement assertions related to significant accounts and disclosures. Therefore, the underlying assumption is that all exceptions/deficiencies resulting from the testing must be evaluated because they relate to accounts and disclosures that are material to the financial statements taken as a whole.
- The purpose of tests of controls is to achieve a high level of assurance that the controls are operating effectively. Therefore, the sample sizes used to test controls should provide that level of comfort. In cases in which samples are selected using a statistically based approach, sample sizes for frequently operating manual controls that result in less than a 90% level of confidence that the upper limit deviation rate does not exceed 10% typically would not provide a high level of assurance. (Refer to the AICPA Audit and Accounting Guide, *Audit Sampling*).
- The magnitude of a control deficiency (i.e., deficiency, significant deficiency, or material weakness) is evaluated based on the impact of known and/or potential misstatements on annual and interim financial statements.

While some of the concepts discussed in this paper relate to statistical sampling, the framework does not require the use of statistical sampling. A statistical sample is (1) selected on a random or other basis that is representative of the population and (2) evaluated statistically. In tests of internal controls, it may be impractical to select samples randomly, but they should be selected in an unbiased manner.

This paper does not address the determination of materiality. Reference, in that regard, should be made to AS2.23, which states:

> "The same conceptual definition of materiality that applies to financial reporting applies to information on internal control over financial reporting, including the relevance of both quantitative and qualitative considerations."

- The quantitative considerations are essentially the same as in an audit of financial statements and relate to whether misstatements that would not be prevented or detected by internal control over financial reporting, individually or collectively, have a quantitatively material effect on the financial statements."
The qualitative considerations apply to evaluating materiality with respect to the financial statements and to additional factors that relate to the perceived needs of reasonable persons who will rely on the information. AS2.6 describes some qualitative considerations.

* AU sec. 312, Audit Risk and Materiality in Conducting an Audit, provides additional explanation of materiality.
Guiding Principles

The principles set forth below correspond to the box numbers on the appropriate charts included in this paper.

The evaluation of exceptions and deficiencies is an iterative process. Although this paper depicts the evaluation process as a linear progression, it may be appropriate at any point in the process to return to and reconsider any previous step based on new information.

Evaluating Process/Transaction-Level Exceptions
Found in the Testing of Operating Effectiveness (Chart 1)

Box 1. All exceptions should be evaluated quantitatively and qualitatively. A thorough understanding of the cause of the exception is important in evaluating whether a test exception represents a control deficiency. This evaluation should consider the potential implications with regard to the effectiveness of other controls, e.g., the company’s information technology general controls (“ITGC”) and other COSO components.

In concluding whether the test objective was met, considerations include:
- The deviation rate in relation to the frequency of performance of the control (e.g., absent extending the test, there is a presumption that an exception in a control that operates less frequently than daily is a control deficiency).
- Qualitative factors, including exceptions that are determined to be systematic and recurring or that relate to the factors outlined in AS 2.133, 139 and 140.
- Whether the exception is known to have resulted in a financial statement misstatement (e.g., there is a presumption that an exception that results in a financial statement misstatement in excess of the level of precision at which the control is designed to operate, is a control deficiency).

A control objective may be achieved by a single control or a combination of controls. A test of controls may be designed to test a single control that alone achieves the control objective or a number of individual controls that together achieve the control objective.

Box 2. If the test objective is not met, consideration should be given to whether additional testing could support a conclusion that the deviation rate is not representative of the total population. For example, if observed exceptions result in a non-negligible deviation rate, then the test objective initially is not met. In a test designed to allow for finding one or more deviations, the test objective is not met if the actual number of deviations found exceeds the number of deviations allowed for in the plan.
Box 3. If the test objective initially is not met, then there are two options:
  o If the observed exceptions and resulting non-negligible deviation rate
    are not believed to be representative of the population (e.g., because of
    sampling error), the test may be extended and re-evaluated.
  o If the observed exceptions and resulting non-negligible deviation rate
    are believed to be representative of the population, the exceptions are
    considered to be a control deficiency and its significance is assessed.

Evaluating Process/Transaction-Level Control Deficiencies (Chart 2)

Step 1. Determine whether a significant deficiency exists:

Box 1. When evaluating deficiencies, potential magnitude (inconsequential, more
than inconsequential, or material) is based on the potential effect on both
annual and interim financial statements. The potential magnitude of a
misstatement of annual or interim financial statements of not more than
inconsequential results in the deficient control being classified as only a
deficiency, absent any qualitative factors, including those in AS 2.9, 137,
139, and 140. Potential magnitude of misstatement may be based on gross
exposure, adjusted exposure, or other appropriate methods that consider the
likelihood of misstatement.

Box 2&3. If there are controls that effectively mitigate a control deficiency, it is
classified as only a deficiency, absent any qualitative factors, including
those in AS 2.9, 137, 139, and 140. Such controls include:
  o Complementary or redundant controls that achieve the same control
    objective
  o Compensating controls that operate at a level of precision that would
    result in the prevention or detection of a more than inconsequential
    misstatement of annual or interim financial statements

Boxes 1, 2, and 3 should be considered separately. Adjusted exposure
should not be reduced by the quantitative impact of the compensating and
complementary or redundant controls.

Box 3. An unmitigated deficient control that results in a control objective not
being met related to a significant account or disclosure generally results in
a more than remote likelihood of a more than inconsequential misstatement
of annual or interim financial statements and, therefore, is at least a
significant deficiency.
Step 2. Determine whether a material weakness exists:

**Box 4.** The potential magnitude of a misstatement of annual or interim financial statements that is less than material results in the deficient control being classified as only a significant deficiency, absent any qualitative factors, including those in AS 2.9, 137, 139 and 140. Potential magnitude may be based on gross exposure, adjusted exposure, or other appropriate methods that consider the likelihood of misstatement.

**Box 5.** Compensating controls that operate at a level of precision that would result in the prevention or detection of a material misstatement of annual or interim financial statements may support a conclusion that the deficiency is not a material weakness.

**Box 6.** In evaluating likelihood and magnitude, related factors include but are not limited to the following:
- The nature of the financial statement accounts, disclosures, and assertions involved; for example, suspense accounts and related party transactions involve greater risk.
- The susceptibility of the related assets or liability to loss or fraud; that is, greater susceptibility increases risk.
- The subjectivity, complexity, or extent of judgment required to determine the amount involved; that is, greater subjectivity, complexity, or judgment, like that related to an accounting estimate, increases risk.
- The cause and frequency of known or detected exceptions for the operating effectiveness of a control; for example, a control with an observed non-negligible deviation rate is a deficiency.
- The interaction or relationship with other controls; that is, the interdependence or redundancy of the control.
- The possible future consequences of the deficiency.
- An indication of increased risk evidenced by a history of misstatements, including misstatements identified in the current year.
- The adjusted exposure in relation to overall materiality.

This framework recognizes that in evaluating deficiencies, the risk of misstatement might be different for the maximum possible misstatement than for lesser possible amounts.

As a result of this additional evaluation, determine whether the likelihood of a material misstatement to both the annual and interim financial statements is remote. In extremely rare circumstances, this additional evaluation could result in a judgment that the likelihood of a more than inconsequential misstatement to both the annual and interim financial statements is remote.
Box 7&8. When determining the classification of a deficiency, consider AS 2.137, which states:

When evaluating the significance of a deficiency in internal control over financial reporting, the auditor also should determine the level of detail and degree of assurance that would satisfy prudent officials in the conduct of their own affairs that they have reasonable assurance that transactions are recorded as necessary to permit the preparation of financial statements in conformity with generally accepted accounting principles. If the auditor determines that the deficiency would prevent prudent officials in the conduct of their own affairs from concluding that they have reasonable assurance,* then the auditor should deem the deficiency to be at least a significant deficiency. Having determined in this manner that a deficiency represents a significant deficiency, the auditor must further evaluate the deficiency to determine whether individually, or in combination with other deficiencies, the deficiency is a material weakness.

Note: AS2.9 and .10 provide the definitions of significant deficiency and material weakness, respectively.

* See SEC Staff Accounting Bulletin Topic 1M2, *Immaterial Misstatements That Are Intentional*, for further discussion about the level of detail and degree of assurance that would satisfy prudent officials in the conduct of their own affairs.

**Additional considerations related to misstatements identified:**

A greater than de minimis misstatement of annual or interim financial statements identified by management or by the auditor during a test of controls or during a substantive test is ordinarily indicative of a deficiency in the design and/or operating effectiveness of a control, which is evaluated as follows:

- The design and/or operating deficiency(ies) that did not prevent or detect the misstatement should be identified and evaluated based on Chart 2 – Evaluating Process/Transaction-Level Control Deficiencies – applying the following:
  - A known or likely (including projected) misstatement that is inconsequential to annual or interim financial statements is at least a deficiency.
  - A known or likely (including projected) misstatement that is more than inconsequential to annual or interim financial statements is a strong indicator of a significant deficiency.
  - A known or likely (including projected) misstatement that is material to annual or interim financial statements, as addressed in AS2.140, is at least a significant deficiency and a strong indicator of a material weakness.
- The implications on the effectiveness of other controls, particularly compensating controls, also should be considered.
**Terminology**

Adjusted exposure – gross exposure (see below) multiplied by the upper limit deviation rate.

Compensating controls – controls that operate at a level of precision that would result in the prevention or detection of a misstatement that was more than inconsequential or material, as applicable, to annual or interim financial statements. The level of precision should be established considering the possibility of further undetected misstatements.

Complementary controls – controls that function together to achieve the same control objective.

Control deficiency – a deficiency in the design or operation of a control that does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect misstatements on a timely basis.

- A deficiency in **design** exists when (a) a control necessary to meet the control objective is missing or (b) an existing control is not properly designed so that, even if it operates as designed, the control objective is not always met.
- A deficiency in **operation** exists when a properly designed control does not operate as designed, or when the person performing the control does not possess the necessary authority or qualifications to perform the control effectively.

Control objective – the objective(s) related to internal control over financial reporting to achieve the assertions that underlie a company’s financial statements.

Gross exposure – a worst-case estimate of the magnitude of amounts or transactions exposed to the deficiency with regard to annual or interim financial statements, without regard to the upper limit deviation rate or likelihood of misstatement, and before considering complementary, redundant, or compensating controls. Factors affecting gross exposure include:

- The annual or interim financial statement amounts or total transactions exposed to the deficiency.
- The volume of activity in the account balance or class of transactions exposed to the deficiency that has occurred in the current annual or interim period or that is expected in future periods.

**Inconsequential**

- Potential misstatements equal to or greater than 20% of overall annual or interim financial statement materiality are presumed to be more than inconsequential.
- Potential misstatements less than 20% of overall annual or interim financial statement materiality may be concluded to be more than inconsequential as a result of the consideration of qualitative factors, as required by AS2.

Material weakness – a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that a material misstatement of the annual or interim financial statements will not be prevented or detected.
Potential misstatement – an estimate of the misstatement that could result from a deficiency with a more than remote likelihood of occurrence.

Redundant controls – controls that achieve the same control objective.

Remote likelihood – the chance of the future event or events occurring is slight.

Significant deficiency – a control deficiency, or combination of control deficiencies, that adversely affects the company's ability to initiate, authorize, record, process, or report external financial data reliably in accordance with generally accepted accounting principles such that there is more than a remote likelihood that a misstatement of the company's annual or interim financial statements that is more than inconsequential will not be prevented or detected.

Test objective – the design of the test of a control activity to determine whether the control is operating as designed, giving consideration to:
  o The frequency with which the control operates
  o The desired level of assurance in combination with the reliability of the control, for example, whether the control is designed to achieve the control objective alone or in combination with other controls
  o The number of exceptions expected

Upper limit deviation rate – the statistically derived estimate of the deviation rate based on the sample results, for which there is a remote likelihood that the true deviation rate in the population exceeds this rate (refer to AICPA Audit and Accounting Guide, *Audit Sampling*).
CHART 1 – Evaluating Process/Transaction-Level Control Exceptions Found in the Testing of Operating Effectiveness

**Box 1.** Examine and understand cause and results of exceptions. Was the test objective met (e.g., was the actual deviation rate less than or equal to the planned deviation rate)?

- **No**
- **Yes**

**Box 2.** Considering the results of management’s and the auditor’s testing and the information obtained in Box 1, could additional testing support a conclusion that the deviation rate is not representative of the total population?

- **No**
- **Yes**

**Box 3.** Extend testing and re-evaluate. Was the test objective met?

- **No**
- **Yes**

**Control deficiency (to Chart 2)**

**Negligible exception, not a control deficiency. No further consideration needed.**

Individual boxes should be read in conjunction with the corresponding guiding principles.
CHART 2 – Evaluating Process/Transaction-Level Control Deficiencies

This decision tree is to be used for evaluating control deficiencies, including:
- Design effectiveness deficiencies
- Operating effectiveness deficiencies
- Deficiencies that resulted in a financial statement misstatement detected by management or the auditor in performing substantive test work.

**Step 1: Determine whether a significant deficiency exists.**

**Box 1.** Is the potential magnitude inconsequential to both annual and interim financial statements?

- **Yes**
  - **Box 7.** Would a prudent official conclude that the deficiency is at least a significant deficiency considering both annual and interim financial statements?
    - **No**
      - Deficiency
    - **Yes**
      - **Box 3.** Are there compensating controls that were tested and evaluated that reduce the magnitude of a misstatement of both annual and interim financial statements to inconsequential?
        - **No**
          - Step 2: Determine whether a material weakness exists.
        - **Yes**

**Box 2.** Are there complementary or redundant controls that were tested and evaluated that achieve the same control objective?

- **No**
  - **Box 4.** Is the potential magnitude less than material to both annual and interim financial statements?
    - **Yes**
      - **Box 5.** Are there compensating controls that were tested and evaluated that reduce the magnitude of a misstatement of both annual and interim financial statements to less than material?
        - **No**
          - **Box 6.** Does additional evaluation result in a judgment that the likelihood of a material misstatement of both the annual and interim financial statements is remote?
            - **No**
              - Material Weakness
            - **Yes**
              - **Box 8.** Would a prudent official conclude that the deficiency is a material weakness considering both annual and interim financial statements?
                - **No**
                  - Significant Deficiency
                - **Yes**

**Box 3.** Are there compensating controls that were tested and evaluated that reduce the magnitude of a misstatement of both annual and interim financial statements to inconsequential?

- **No**

Individual boxes should be read in conjunction with the corresponding guiding principles.