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**Sections Included in this Document and Change History**

1. Purpose
  2. Scope
  3. Responsibilities
  4. Background
  5. References
  6. Procedure/(6. 6. & 7. – removed “approved” 6.2 A. 1. – removed “district”; 6.2 C. 4. – removed “approves and”; 6.2 C. 6. – removed “District Director”)
  7. Definition
  8. Records
  9. Supporting Documents
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- Document History

**1. Purpose**

This procedure establishes the process to identify, track, complete the investigation of the problem and correct the causes of existing non-conformances including complaints in products, processes, the [Laboratory Name] Quality Management System, and services in the [Laboratory Name]. The cornerstone of corrective actions is written and retrievable documentation of actions taken and follow-up monitoring to determine that corrective actions have been performed and documented.

**2. Scope**

This procedure is applicable to all organizational units and personnel in the [Laboratory Name].

**3. Responsibilities**


A. [Third Level Manager]:

- initiates, performs and oversees corrective action;
- assigns corrective action to personnel; and
- reviews corrective action taken by personnel and approves or recommends further corrective action.

B. [Second Level Manager]:

- implements corrective action procedure in respective branch,
- assigns corrective action to identified [Third Level Manager], and
- reviews and approves corrective action taken by [Third Level Manager].

C. [First Level Manager]:

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- ensures corrective action procedure is implemented and monitored,
- assigns corrective action to responsible [Second Level Manager], and
- reviews and approve corrective action taken by [Second Level Manager].

D. Quality System Manager (QSM):

- uses established corrective action form and procedure;
- monitors the progress and status of corrective actions for timely completion,
- reviews completed forms for effectiveness and assigns follow-up actions and date due, if deemed necessary;
- maintains through the a computer program/ web application corrective actions; and
- maintains through the a computer program/ web application and files copies (non-electronic system) of objective evidence which support verification and validation of actions taken.

E. Staff:

- initiates and performs corrective action for non-conformances; and
- completes Non-Conformance\_Corrective Action (NC\_CA) form to document problem, area or situation investigated, findings and action taken.

**4. Background**

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None


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**5. References**

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None

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**6. Procedure** The corrective action process is illustrated in the flow chart. The seven steps illustrated are as follows:

1. When a non-conformity is detected, suspend work and evaluate the situation. Take action to identify the non-conformance. Obtain the Non-Conformance\_Corrective Action (NC\_CA) form from the computer program/web application.
2. Complete the first part of the NC-CA form with the suspected quality system problem and findings. Determine the whether a correction only is sufficient and determine the disposition.
3. If corrective action is to be taken, begin investigation to resolve the problem by examining the extent of the problem. Note internal and external observations and area or situations looked at during the investigation.
4. Note findings and causes with supporting evidence.
5. Determine cause and perform root cause analysis, if possible. Decide action to be taken. Perform corrective action.
6. NC\_CA form is submitted to immediate supervisor and QSM for review. The supervisor will review and perform one of the following actions:
  - Not approve the actions taken and recommend further actions to be taken. Additional corrective action will be implemented, reviewed and approved.
  - Approve the corrective action and enter in name and date, release the product *and* submit the NC\_CA form and supporting documentation to the QSM within 30 days of date action initiated.
7. The QSM reviews, evaluates and determines effectiveness of actions taken. The action may be closed or further follow up and monitoring actions may be identified. The action may be determined to be ineffective, and another corrective action form initiated to correct non- conformity.

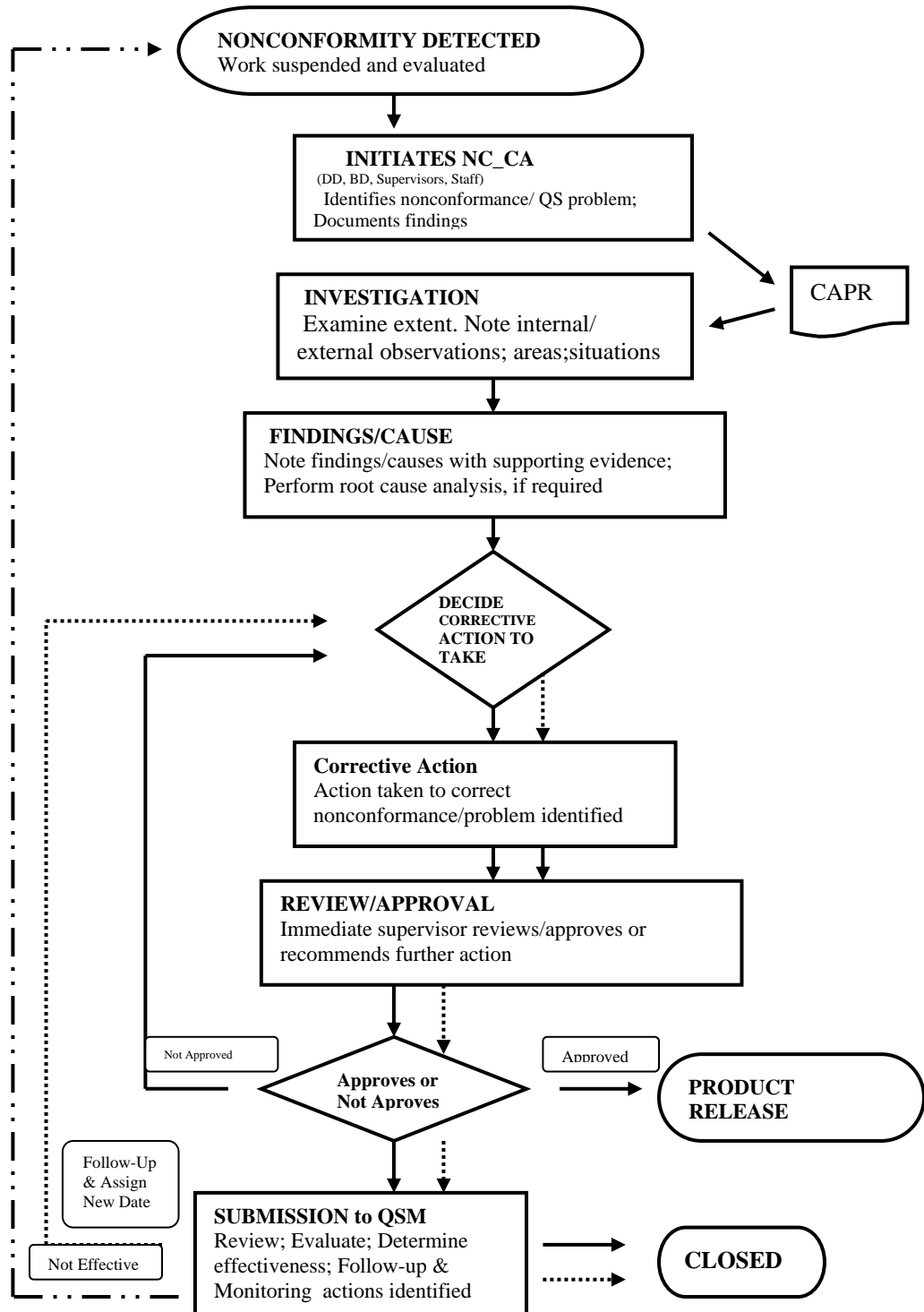



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**FLOWCHART – Corrective Action**

**6.1  
Flowchart**



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**6.2  
Corrective  
Action**

**A. Accountability for Corrective Actions**


1. The QSM serves as the focal point for data quality, instrument problems, report and action quality and for feedback on operations and corrective actions taken.
2. Corrective action at the technical level is initiated and corrected by the analyst, technician, officer or supervisor. The person who created the problem, fixes it.
3. The QSM detects and corrects systematic problems which may occur in the course of daily work by maintaining surveillance over stated quality objectives and requirements, audits, and complaints.
4. The NC\_CA form is located on the [Location]. A sequential number will be assigned by the QSM or the computer program/web application and serves as the tracking mechanism.

**B. Initiation and Completion of Corrective Action**

1. The investigation of suspected quality problems is initiated as a result of quality control criteria being exceeded, specified requirements not being met, audit findings indicating systematic problems, or as a result of a complaint.
2. Corrective actions are of two kinds:
  - On-the-spot or immediate corrective action to correct or repair non-conforming data, reporting or equipment, that are actions routinely made by analysts, technicians and supervisors; and
  - Long-term corrective action to eliminate causes of non-conformance or a complex deficiency that are actions normally identified by audits.
3. A NC\_CA form is to report the non-conformity. This form provides the steps for a closed-loop process that includes:

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- a. initiation and identification of nonconformity,
  - b. investigation (examine extent),
  - c. findings and conclusions,
  - d. determination of cause to prevent reoccurrence,
  - e. corrective action taken and implemented, and
  - f. follow-up by the QSM to ensure that the corrective action is a fix and succeeded in achieving the results desired and is effective.
4. Work is suspended and evaluated. Action is taken to identify the non-conformance. Begin investigation to resolve the problem.
  5. The findings are recorded on the NC\_CA form. Examples of findings or causes include:
    - equipment failure;
    - incomplete or nonexistent procedures;
    - non-compliance with procedures and regulations;
    - improper collection, storage, handling, or preparation;
    - calculation errors or transcription errors; and
    - lack of training.
  6. The cause and, if possible, the root cause is determined to prevent reoccurrence of the non-conformity and to provide a permanent solution.
  7. The conclusions and actions taken are recorded on the NC\_CA form. Examples of conclusions and actions may include:
    - equipment repaired,
    - procedures revised or created,
    - product reworked to comply with procedures or regulations,
    - correct calculation employed or transcription error corrected, and
    - proper training given.
  8. The initiator's immediate Supervisor approves the action or recommends further action.

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#### C. Submission to QSM and Follow-up:

1. Completed corrective actions with supporting documentation are submitted to the QSM for filing within 30 days of date action initiated.
2. The QSM reviews the form and evaluates the implementation and effectiveness of the corrective action (e.g. Are quality objectives met?).
3. If deemed necessary, follow-up and monitoring actions will be identified and a new date for completion set and approved.
4. When there is objective evidence that the actions are completed and effective, the QSM closes the corrective action.
5. If the NC\_CA form was initiated due to a complaint, the NC\_CA form is not closed until the customers has been contacted and confirmed that their concerns have been met. See Section 1, ORA-LAB.4.8 Complaints.
6. The nature of the non-conformity and status of this process is reported to the Laboratory Director and Branch Directors [frequency] by the QSM.
7. The effectiveness of corrective actions are monitored and verified during audits and management review.

#### D. Product Release

1. Data, reports, and actions are not released until the problem is resolved and verified by the Supervisor or Branch Director. The sample may need to be reanalyzed or re-collected or the inspection redone. If unable to resolve the problem, the receiver is notified that the laboratory data cannot be reported or accepted, with disclaimers made that the product did not meet quality standards.
2. In the event that a non-conformity has been identified and previous reported data is suspect, the customer is notified and if possible the product brought into limits by rework or reanalysis to confirm the validity of what was reported. If in error, a corrected report will then be sent.



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**7. Definitions** Corrective action - This is an endeavor taken to eliminate the causes of a detected non-conformance, defect or other undesirable situation in order to prevent reoccurrence.

Corrective action and problem report form - Form is used to initiate corrective action.

Non-conformance - This is non-fulfillment of a specified, or implied, requirement of the Quality Management System or of a quality work product. Fitness-for-use criteria and evaluations determine the significance of a nonconformance.

Cause - A cause is a fundamental deficiency that results in a non-conformance and is to be corrected to prevent reoccurrence of the same, or similar, non-conformance.

Signature – A signature is a handwritten, electronically written, or electronically typed name of an individual or entity that indicates an act of approval, disapproval, review, or recommendation.

**8. Records** Non-Conformance\_Corrective Action(NC\_CA) form

**9. Supporting documents** [Name] - Audits  
[Name] – Complaints  
ORA-QMS.007, Corrective Action Procedure

**10. Attachments** Attachment A: Non-Conformance\_Corrective Action Form Example

Document History					
Version No.	Status (I, R, C)	Date Approved	Location of Change History	Name & Title	
				Author	Approving Official
1.4	R	12/31/07	In Document	LMEB	LMEB
1.5	R	02/06/12	In Document	LMEB	LMEB
1.6	R	09/29/14	In Document	LMEB	LMEB

Approving Official's signature: \_\_\_\_\_ Date: \_\_\_\_\_





**ATTACHMENT A**  
Non-Conformance\_Corrective Action Form Example

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ID# \_\_\_\_\_

[NAME]

**Non-Conformance\_Corrective Action Form**

Initiated by: \_\_\_\_\_ Supervisor \_\_\_\_\_ Date: \_\_\_\_\_

Affected Project(s) and/or Analysis: \_\_\_\_\_

**Quality System Problem(s) and Findings:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Priority: Low \_\_ Med \_\_ High \_\_                      Root Cause Required: Yes \_\_

**Possible Causes and Major Area/Situations Investigated:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Findings and Causes from Investigation:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Conclusion (identified root cause)/Corrective Action:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Initiator: \_\_\_\_\_ Date: \_\_\_\_\_ Supervisor \_\_\_\_\_ Date: \_\_\_\_\_

Submitted to QSM: \_\_\_\_\_ Date: \_\_\_\_\_

**FOLLOW UP:** \_\_\_\_\_ Due Date: \_\_\_\_\_ Date Closed: \_\_\_\_\_

Monitoring

**Findings:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Quality System Manager \_\_\_\_\_