4.13 Control of Records 5.10 Reporting the Results

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Topics in the Standard for Records

• 4.13.1 Procedures

- 4.13.3

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• **4.13.2 Technical Records** – 4.13.3

Topics in the Standard for Reports

- 5.10.1 General Reporting Requirements
- 5.10.2 Test Reports contents
- 5.10.3 Additional contents
 5.10.11 Additional Requirements
 - 5.10.4 Calibration Certificates (not applicable)
 - 5.10.5 Opinions and Interpretations

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• 5.10.6 Results of subcontractors

Topics in the Standard for Reports, cont.

• 5.10.7 Electronic transmission

• 5.10.8 Report Format – 5.10.10 Exceptions

4.13.1 General Requirements

4.13.1.1 You must have procedures for these activities related to quality and technical records:

- Identification
- Collection
 - Indexing
 - Access
 - Filing
 - Storage
 - Maintenance
 - Disposal

- Quality Records include:
 - Internal audits
 - Management reviews
 - Corrective and preventive actions

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- 4.13.1.2 Records must be
- Legible

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- Stored/retained to
 - be readily retrievable
 - prevent damage or deterioration
 - prevent loss
- Have a retention time
 - Retain for a maximum of 5 years after the last entry (4.13.3.3b)

4.13.1 General Requirements cont.

4.13.1.3 Records must be held secure and in confidence

- Records must be available to the accreditation body (4.13.3.c)
- An access log must be used to document access to archived information (4.13.3.e)

4.13.1 General Requirements cont.

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- 4.13.1.4 Electronic records must
- Be protected

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- Have a back-up system
- Have a system to prevent unauthorized access or changes
- Have the hardware and software needed to retrieve (if only electronic)(4.13.3.d)

4.13.1 General Requirements cont.



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4.13.2 Technical Records

4.13.2.1 Universal Requirements

You must retain records of:

- Original observations
- Derived data
- Enough information to establish an audit train
- Calibration
- Staff records
- Copy of each test report
- Records must be retained for a specified time (5 years)

You must retain sufficient information

- to identify factors that might affect the measurement uncertainty
 - To repeat the test under the same conditions as the original
- Identify the person(s) responsible for performance of each test and for checking results

Universal Requirements, cont.

- You must have a system that allows the history of the sample and its associated data to be readily understood through documentation
 - Unequivocal, accurate records that document all laboratory activities such as
 - Facilities
 - Equipment
 - Analytical methods
 - Sample receipt and preparation
 - Data verification
 - Inter-laboratory sample transfers

Universal Requirements (4.13.3.a)

You must etain all information necessary

* for historical reconstruction

- Raw data for calibration, samples & QC
- Reference to method + data reduction
- Lab ID Code
- Analysis date
- Time of analysis (≤72 hrs) or time critical steps
- Instrument ID & operating conditions
- Manual calculations
- Analyst ID
- Sample prep including cleanup, ID codes, volume weights, instrument or meter readings, calculations & reagents
- Test results
- Standard & reagent origin, receipt, prep and use

Universal Requirements (4.13.3.fi) - xix)

You must etain all information necessary

- * for historical reconstruction
- Calibration criteria, frequency and acceptance limits
- Data and statistical calculations, review, confirmation interpretation, assessment & reporting conventions
- QC procedures & assessment
- Electronic data security, software documentation & verification, backups and records of changes
- Method performance criteria
- PT Results
- DOCs
- Record of names, initials & signatures of all individuals who sign/initial any lab records

Universal Requirements (4.13.3.f i) - xix)



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 Observations, data and calculation must be recorded when they are made
 Must be identifiable to a specific task

* 4.13.2.3 - Mistakes

- Cross out but do not obliterate
- Enter correction next to error
- Sign/initial
- Electronic records must have an equivalent system (original data must be available)

Any entry (except automated data) must be legible and in indelible ink.

Mistakes 4.13.3 g)

- Corrections must be initials and dated
- Corrections must specify the reason (except transcription errors)

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4.13.3 h) Changes in Business

- If the lab goes out of business or transfers ownership you must have a plan:
 - Records must be maintained or transferred base on client requirements
 Regulatory and state requirements
 - applicable to records must be followed



5.10.1 General Requirements

- Results must be reported
 - Accurately, clearly, unambiguously and objectively
- In accordance with method specified requirements
- Results are usually reported in a test report that must include
 - Customer requested information
 - Information necessary for the interpretation of the test
 - Method-required information.

Reports usually contain items in 5.10.2 and 5.10.3 or 5.10.4

- Reports to internal clients or written agreement
- May be simpler
 - Information in 5.10.2 .4 must be readily available

General Requirements, cont.

- Provide information necessary to
- complete regulatory reports (MORs)
- Captive labs do not have to issue formal reports if
- The lab is responsible for preparing the regulatory report or
 - The lab provides the information to another individual for report preparation
- All information as required in a formal report must be retained

General Requirements 5.10.10

^{*}5.10.2 Test Report

- Title
- *Lab name & address
 Other locations
- Test Report ID
 - Each page must be linked to the report
 - Clear identification of
 last page
- Name & Address of Customer
- Method ID
- Sample ID including condition

- Date of receipt
 - Date of analysis / sample preparation
- Reference to sampling
 plan & procedures
- Results with units of measurement
- Name, function and signature of authorizing party
- Statement that the results relate only to the tested samples

Required on all reports



- Sample preparation/analysis time when holding time is ≤ 72 hours
- Results reported on a basis than an received
- Clearly identify non-accredited tests if accreditation is required or if claims to such are included on the report (hard copy and electronic)
 - Numerical results with values outside the calibration range

Test Report 5.10.11

5.10.3 Test Report

- to interpret the test results
- Modifications to the test method
- Test Conditions
 - Statement of compliance/noncompliance with requirements or specifications
 - Estimated measurement uncertainty
 - Opinions and interpretations
 - Additional information required by method or customer

5.10.3.2 Include the following sampling information where necessary to interpret the test results

- Sampling date
- Unambiguous ID of sample
- Location of sampling
 - Reference to sampling plan and procedures
 - Environmental conditions
 - Standard for sampling methods, and modifications to the standard

Test Report, cont.

5.10.5 Opinions & Interpretations

- If made, document the basis upon which they are made
- Clearly indicate any opinions or interpretations

5.10.6 Subcontracted Results

- Clearly identify results from subcontractors
- Subcontractor must report results in writing or electronically

5.10.7 Electronic Transmission

 Requirements of the TNI Standard must be met

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5.4.7 Control of Data

You must ensure that:

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- Computer software developed by the user is documented and validated
- You have established and implement procedures for protecting the data; including
 - integrity and confidentiality of data entry or collection
 - data storage, transmission and processing;
 - Computers and automated equipment are maintained
 - Have the environmental and operating conditions necessary to maintain the integrity of test

5.10.8 Test Report Format

Format to minimize the possibility of misunderstanding and misuse

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5.10.9 Amendments

• Must be a different document

- Clearly link the document with the original
- Ensure that the purpose (supplement, correction etc.) is stated.
- Must meet the requirements of the TNI standard for reporting
- A replacement must be clearly identified with a unique ID and reference to the original