Quality Management System Expert Committee (QMS) Meeting Summary

January 11, 2023

1. Roll Call:

Debbie Bond, Chair, called the meeting to order at 8am Central in San Antonio, TX on January 11, 2023. Voting members present: Debbie Bond, Michael Demarias, Tony Francis, and Nick Slawson. A quorum was not present, so the Committee was not able to do business, but could meet.

Debbie started the meeting by reviewing the presentation included in Attachment A.

2. Definitions Workgroup

See slides in Attachment A.

3. Language Workgroup - Nick

Nick noted that the Workgroup was given 5 sections of the Standard to work on. They have suggested language to the Committee for 4 sections to date. The Workgroup's goal was to reduce redundancy and streamline language.

The slides in Attachment A were reviewed.

Q: Define - readily available? A2LA defines it as available by the end of the assessment. Will send to Definitions Workgroup.

Q: Yesterday in Chemistry - How valuable is the iDOC record 10 years from now? Just working together on these types of issues so the Standard is consistent.

Q: Conflicts with General requirements to only keep records to 5 years. This is a change to this. It is being proposed that it is 5 years from use, not date.

Q: How do you know what Last Use is? When required to support current laboratory activities. Example would be iDOC. Analyst is doing work right now ... so need to keep record.

4, Technical Specialist

Debbie quickly reviewed the language to date on screen, but did not go through it in detail. She wants to work mainly on exceptions today.

She reviewed each Module's Technical Specialist requirements.

Comments:

- Thank-you. Much more usable. Exceptions are acceptable.
- Make it if you meet one of the criteria. Don't have to have a plant operator's license.

Debbie noted in Section d), there is a good possibility that this section will not remain. TNI does not have any control of these other organizations and TNI doesn't have a credentialing system today. Ilona suggested bringing this up in the afternoon Credentialing meeting or bring it to their attention.

Comments:

- Is there a reason it is not bullet iv? It doesn't need a waiver?
- A2LA accredited credentialing organizations. Consider changing to accredited credentialing organizations.
- There were mainly labs in the room. Not a lot of ABs.

Debbie stepped back to each section to get comments:

- Texas AB: Technical Specialist for Multiple locations. ABs are not going to be happy with this language as it stands. Not clear. Lab can decide any schedule. Doesn't say the schedule has to be approved by the AB. Currently, a schedule is proposed and TCEQ currently receives it. There is concern thatd the ABs will not approve this language.

Asbestos: No comments.

Chemistry:

Q: What is experience? On instruments? Data review? More information needed.

Q: Its equivalency? Lab's? Need to show it is equivalent to what is listed. Remove "it's".

Q: Technology? Any analyte?

Q: ;Are these minimum? This was removed.

Microbiology:

Micro lite - there are more options than previously in this section? It was analyte based and now it is technology.

Radiochemistry:

Proficiency or competency here? Debbie will check on this?

Toxicity Testing: No comments.

Exceptions: Replace Manager with Specialist.

5. Internal Audit

Debbie reviewed options for internal audits in the meeting slides (Attachment A), looked at the SIR 308 that discusses internal audits, and looked at possible language:

TNI V1M2, 3.1 Additional Terms and Definitions:

Technology: A specific arrangement of analytical instruments, detection systems, and/or preparation techniques.

Current DRAFT Internal Audit language:

- 1. In addition to the requirements listed in 8.8.1 and 8.8.2, the internal audit program shall include:
 - a. a pre-defined schedule covering a 2-year period
- 2. The interval for each audit shall be determined by the laboratory and shall not exceed:
 - a. 24 months for methods/technologies on the scope of accreditation Note: Technologies are defined in the TNI Laboratory Accreditation Management System.
 - b. 12 months for the elements in Module 2 of this standard Note: Laboratories must ensure they follow the most stringent requirements, where applicable.

SIR 308: TNI V1M2 (2009 & 2016) 4.14.1 - Request:

Per Clause 4.14.1, the internal audit program shall address all elements of the management system, including the testing and/or calibration activities. It is unclear if all test methods need to be audited annually since 4.14 never uses the word "methods" but rather "areas" or "activities".

Can the test methods be grouped by technology (i.e. GC/MS, ICP/MS, ICP,

Spectrophotometry, Gravimetry, Meters, Titrimetry, SFIA, etc.) or does every method have to be audited annually? If grouped by technology, can different test methods within each technology be scheduled annually? The schedule beyond one year would show that tests are rotated for internal audits over time.

Response:

No, not every method needs to be assessed annually in the laboratory's internal audits. Yes, different methods within each technology may be assessed on an annual basis.

Suggested language 1:

All methods under which the laboratory performs its accredited testing shall be assessed, as part of the internal audit program, within a three-year audit cycle. The audits of methods to be performed in a given year shall be specified in the predetermined internal audit annual schedule. The laboratory shall have procedures in place to ensure all methods are assessed within a three-year cycle and the internal audit annual schedule is completed. Laboratory management shall ensure within the internal audit program that a representative sample of the methods are assessed on an annual basis. For example, not all methods within a laboratory with a large scope of accreditation have to be assessed annually as long as enough of the methods have been assessed to be representative of the entire laboratory. The representative sampling of the methods shall take into consideration matrices and method/technology combinations. It is recommended, that laboratories with a small scope of accreditation should have all tests assessed on an annual basis.

Suggested language 2:

- 1) The current DRAFT internal audit language essentially says that the lab shall audit all elements of Module 2 every 12 months. Could we use this same approach for all of the Technical Modules? The emphasis should be on auditing the lab to the standard, not necessarily just the methods. Maybe state: "The laboratory shall audit all elements of applicable Technical Modules 3-7 annually using a representative selection of analytes, matrices, and methods that cover at least one-third of the laboratory's scope of accreditation." This puts the emphasis on the standard requirements every year, encompasses more than just methods, and avoids technologies. It also ensures that one-third of the Scope is assessed every year within the 3-year cycle, but gives the lab flexibility. I know the word "representative" is still in there, not sure how else to say it more succinctly.
- 2) And what about Module 1? At what frequency should the lab audit the PT requirements? Maybe fit in with Technical Modules?

Comments:

- Likes second sentence better. Small scope? Is it clearly defined anywhere?
- Problem with word "representative." It is different for labs vs. ABs.
- Need to talk about risk. Debbie thinks boundaries need to be placed.
- Nick 17025:2017 is risk based in regards to internal audits. He looks at PTs and that should help determine where you do internal audits. He likes setting 3 years to check everything, but up to lab how to do this.
- Tony over 3 years audit all methods on your scope.
- AB Comment liked language what is a small lab? This addresses it. If your lab only does micro do internal audit every year. Takes some of subjectiveness out of it.
- Has lab with 500 fields. Divide by 3 can't do that in one year. Would have to hire someone. Would like to make this a risk decision. Think about it as methods on your scope? Need to look at it as technology instead.
- States are saying they want methods, but SIR says technology. You are going backwards. What are the technologies?
- Labs would like to see risk based established by the lab.

- Look at technology instead of methods.

BREAK

6. Defining Technology

Debbie reviewed the slide for Too Broad or Too Narrow in Attachment A.

Comments:

- Need a definition for Internal Audits if they get focused on technology instead of method.
- Read definition for Technology in Glossary.
- Method Selection uses same technology in 1.4 Is that a concept applied in the Standard ... maybe a jump off.
- Tony What if you figure out the determinative step not the separation technique? Then you can combine more. What is the detector at the end?
- For Microbiology preparative step might be the most important.
- For Microbiology Thinks the same thing. Front end is the place to look. It might be possible to figure out other words to use that could be consistent. Come up with definition and then let the expert committees define the pairings.
- Are we looking for a definition? Or could we look at forming a list of technologies? A definition may still cause some confusion. A list may help with implementation.
- Simplest form of defining technology may be what is needed. That may make it too norrow. Then look at what you have and figure out how that relates to LAMS.
- Current definition for technology: A specific arrangement of analytical instruments, detection systems, and /or preparation techniques.
- Thinks it should be based on the science instead. What is it doing?
- Technology is also used in PTs.
- AB commented: Would not want to change how PTs are looking at technology. Also, ABs decide whether analytes can be added based on technology so impacts ABs also.
- Debbie thinks we will need to understand LAMS use of Technology and go from there.

- A list should not be part of the Standard because it could change. Maybe reference LAMS for technologies? She shared a list from LAMS.
- Need to be able to figure out how to handle new technologies too.
- Need a definition to figure out how to group things together. Though it could be easier to work on lists and then form a definition. It may become clear if you start by listing.
- Groupings are in Standard Methods for Micro ... that may help as a starting point.
- We know technology is used by Chemistry Expert, PT and QMS uses it for Internal Audits and Technical Specialist. Field of Accreditation also refers to technology. Ask Chemistry Expert and PT how they use Technology (not definition, but what they do with it). This might help.
- Do we want to separate prep from technology?
- Consider defining competency instead of using technology in Technical Specialist language.
- LAMS technology is pretty good.

Debbie asked for some feedback on how this should be addressed:

- List 15
- Rely on definition 0

Debbie thinks she will start with working on a list. Maybe this is a Task Force exercise since it impacts all of TNI. Debbie will discuss this Stacie Crandall (Chair, PTPEC) and Paul Junio (Chair, CSDP).

7. New Business

- None.
- 8. Next Meeting and Close

The next meeting will be by teleconference on February 13, 2023.

Debbie adjourned the meeting at 11:10am Central.





Quality Management System Committee			
Member			
Nicole Cairns	NYSDOH	Lab	
Michael Desmarais	SVL Analytical	Lab	
Tony Francis	SAW Environmental	Other	
Carla McCord	Virginia	AB	
Stephanie Atkins	Pace Analytical	Lab	
Nicholas Slawson	A2LA	AB	
Earl Hansen	Retired	Other	
Jenna Majchrzak	NJ DEP	AB	
Zaneta Popovska	ANAB	AB	
Amy Schreader	UC Laboratory	Lab	-
Alyssa Wingard	NAVSEA LQAO	Other	l l
Ashley Larsson	KC Water	Lab	/#-
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INSTITUTE

SIRs

> SIR 422 (traceability of preservative used during sampling)

SIRs

> SIR 433 (SOP sufficient for historical reconstruction?)

Disclaimer

The following SIRs are not complete. Any response described must be approved by LASEC and AC before it may be posted. The response may change.



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422 on section 5.6.4.2

SIR 422

procedures shall exist for the purchase, receipt and storage of

This section of the Standard specifies, "Documented

SIR 433 Definitions Workgroup 433 on Section 4.13.3 Throughout the 2016 TNI Standard, and specifically within section V1M2: 4.13.3, the laboratory is required to produce, ensure, implement, etc., a system that produces records that document all laboratory activities, have documentation that allows histori reconstruction, etc. Labs are also required to have and maintain SOPs that meet all of the method and regulatory requirements as well as accurately reflect the laboratory's operations, and the analysts are required to read, understand, and follow their SOI Question: Is the laboratory required to have a record, that they fill out like a Workgroup members atory requirements and follow their SOPs > Paul Junio (Chair), Northern Lake Service Lab (Lab) > Lizbeth Garcia, Oregon Dept of Environmental Quality (AB) benchsheet or logbook (or whatever terminology the lab might use), electronic or hardcopy, where they document every step of the test or every action that is taken in > Jenna Majchrzak, NJ Dept of Environmental Protection (AB) the laboratory? Such as: > Amy Schreader, UC Laboratory (Lab) exact times of each step of a organics sample extraction reaction times/wait times of a sample digestion or extraction Debbie Bond, Alabama Power General Test Lab (Lab) Mission - pH checks within a sample digestion/extraction (note, not a pH check for preservation acceptance purposes, but a pH adjustment that is required within a Evaluate requests for definitions of specific terms in V1M2 of the 2016 TNI digestion/extraction step) Standard. Where a definition is needed, develop definitions that align with Or, is having these times, steps, requirements, etc. listed in the SOP acceptable as part of the laboratory's proof of 'historical reconstruction' of all laboratory activities? the Standard. Review TNI language use a consistent term when a written procedure is required. Present to the QMS Expert Committee for

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Language Update Workgroup

Workgroup members

- > Nicole Cairns (Chair), NY-DOH (Lab)
- > John Gumpper, ChemVal Consulting (Other)
- > Lisa Parks, Jackson Family Wines (Lab)
- Nick Slawson, A2LA (AB)

Mission

To update language for specific clauses of Volume 1, Module 2 of the 2016 TNI Standard where clarification or changes are needed and to present the updated language to the QMS Expert Committee for consideration.

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SIR 308 – Clause 4.14.1 (rev 2009 & 16)

Final Response

- > No, not every method needs to be assessed annually in the laboratory's internal audits.
- > Yes, different methods within each technology may be assessed on an annual basis.



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