OVERVIEW—QSM MODULE 8, QUALITY SYSTEMS FOR INDUSTRIAL HYGIENE TESTING

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OBJECTIVES

- Statutory requirements for IH testing
- History of Module
- Review of draft Module 8
- Discussion and future action

STATUTORY REQUIREMENTS FOR IH TESTING

10 CFR PART 850.24, Chronic Beryllium Disease Prevention Program

"The responsible employer must have all samples collected to satisfy the monitoring requirements of this part analyzed in a laboratory accredited for metals by the American Industrial Hygiene Association (AIHA) or a laboratory that demonstrates quality assurance for metals analysis that is equivalent to AIHA accreditation."

STATUTORY REQUIREMENTS FOR IH TESTING (CONT.)

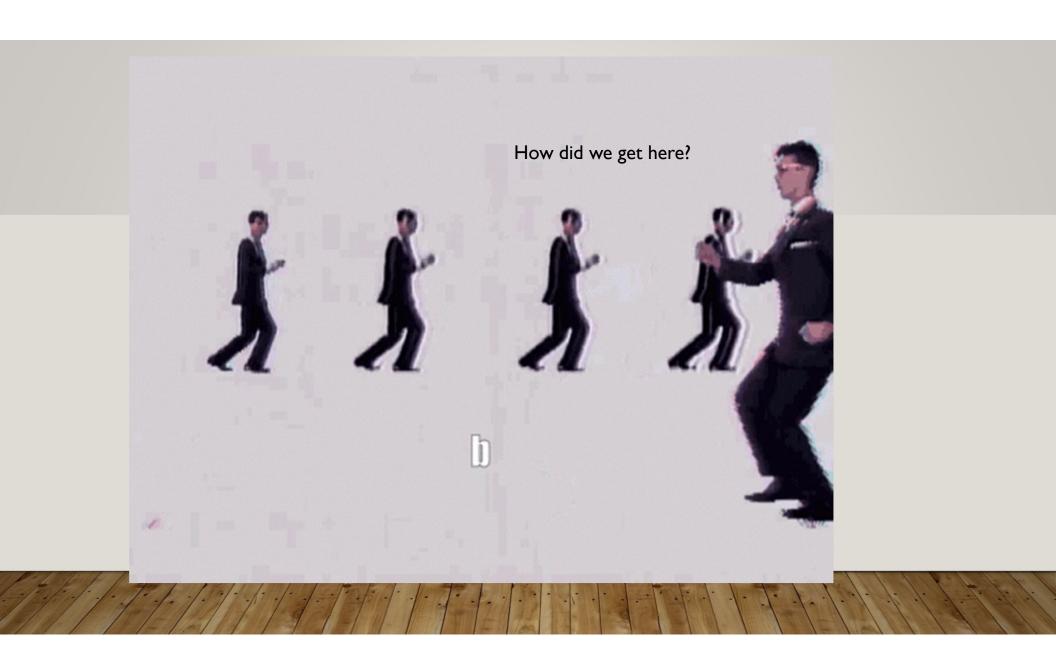
• 10 CFR Part 851.21, Worker Safety and Health Program:

Document assessment for chemical, physical, biological, and safety <u>workplace hazards</u> using recognized exposure assessment and testing methodologies and using of accredited and certified laboratories;

STATUTORY REQUIREMENTS FOR IH TESTING (CONT.)

DOE Order 440.1B, "Worker Protection Program for DOE Federal Employees,"
 Functional Area Requirements for Industrial Hygiene

Documented exposure assessment for chemical, physical and biological agents and ergonomic stressors using recognized exposure assessment methodologies and use of accredited industrial hygiene laboratories



HISTORY

- Quality Systems for Analytical Services (QSAS), >10 years ago
- QSAS—DOE centric, DOD relied on AIHA LAP
- QSM came along
- Appendix B tables, confirmatory analyses using 2nd column not applicable to IH analyses

HISTORY (CONTINUED)

- Team assembled to
 - Revise QSM tables (to reflect NIOSH/OSHA analytical methodology)
 - Address lack of prescriptive requirements when transitioning from 2005 to 2017 versions of ISO/IEC 17025
 - Spring 2021 polls indicated team favored keeping TM, QM (qualifications/responsibilities), QA Manual

ON TO THE MODULE

- Is it prescriptive enough? (Yes)
- PT adequately addressed?

https://www.eptis.bam.de/eptis/WebSearch/main (some non-US manufacturers)

https://aiha-assets.sfo2.digitaloceanspaces.com/AIHA/lap-uploads/QSD-SPT_Scope_PT_Table.pdf

Desorption efficiency (DE) requirements & LC/MS QC needed

MEMBERSHIP OPPORTUNITY

- Beryllium Health & Safety Committee—501c3 not for profit
- https://berylliumhealthandsafetycommittee.com
- We just don't talk about beryllium
- Present members—DOE, USACE, EU Firms, instrument manufacturers, commercial laboratories
- Subcommittees—medical/epidemiological, research needs, sampling/analysis, risk communication

DISCUSSION, QUESTIONS, AND FUTURE ACTION?

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THANKS FOR THE LOOK AHEAD

