

An Update on the Proposed Beryllium Field Analyst Registry Program

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AIHA Registry Programs®

Quick Introduction to AIHA Registry Programs

- Asbestos Analyst Registry has been in place since 1980s
 - New programs developed in direct-reading instruments, safety data sheet authoring, and exposure decision analysis
- Individual assessment of competency
 - Proficiency testing and/or
 - Written exam and/or
 - Skill demonstration



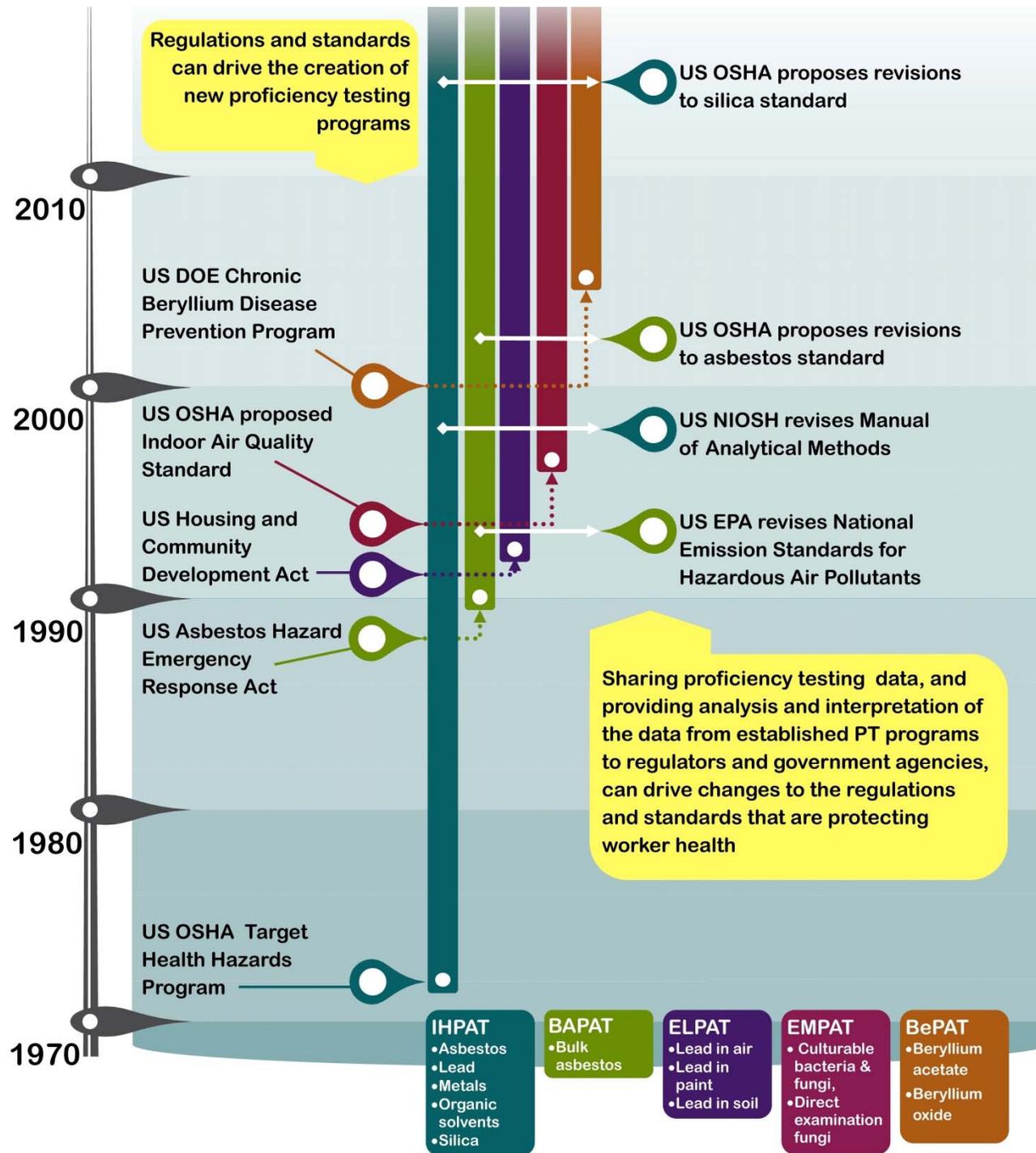
Why Use Proficiency Testing?

- Important tool for:
 - Training
 - Internal QC
 - External QA
- Assures validity of measurements when:
 - Validated methods and equipment are used
 - Qualified and competent staff undertake the work
 - Measurements are compared with those made by other participants
 - Well defined QC and QA procedures are employed, preferably involving third party accreditation

*As extracted from ISO Guide 33
on Reference Materials*



Proficiency testing has a history of supporting efforts to protect worker health



Proficiency Testing Parameters

- Current regulatory levels
 - 10 CFR 850 Action Levels = 0.2 $\mu\text{g}/100\text{ cm}^2$ (surface wipes) and 0.2 $\mu\text{g}/\text{m}^3$ (air)
 - OSHA PEL = 2 $\mu\text{g}/\text{m}^3$ (air) 8-hr TWA

Generally PT samples range from 0.5 to 2x regulatory limits

- Validated analytical methods for field-portable fluorometry (aka molecular fluorescence)
 - NIOSH 7704 (air filters)
 - NIOSH 9110 (surface wipes)



Requirements to be listed in Registry

- Confirmation that the candidate/registrant is working under an accredited laboratory's quality management system
 - By the sponsoring organization/employer AND
 - By the sponsoring laboratory accredited for beryllium analysis
- Participation in Be Field Measurement Proficiency Testing (BeFMPT) Program
 - Demonstrated proficiency in two consecutive BeFMPT rounds
 - Provisional listing in Registry after demonstrated proficiency in initial BeFMPT round



Planned Be Field Measurement PT Program

- Three rounds annually
- Each round consists of spiked and blank wipes
 - Can include air filters, also, if needed
- Target concentrations/challenges to be varied each round
 - BeAcetate and BeOxide will be used



Additional Considerations

- Need to ensure the PT program is statistically sound
 - A minimum of 8 participants is needed
- Target concentration range to be determined by AIHA PAT Programs Board after consultation with DOE
 - Understand DOE samples may range from $<1\mu\text{g}$ to $>100\mu\text{g}/\text{sample}$
- Schedule planned to be concurrent with existing BePAT rounds
 - Retest rounds will be available after start of program
- Potential inclusion of additional Be compounds and/or mixtures
 - After first year pilot program completed
- Program evaluation at the end of the first year to determine if any adjustments/revisions to program parameters are needed



Questions?

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