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Resolving the Negatives: Update on ASTM Draft PRV Standard



Acknowledgements

ASTM
and
the dedicated members of D22.08

ASTM D22.08

Assessment, Sampling, & Analysis of Microorganisms

AKA

The best kept secret in Standards for Fungal Assessment, Sampling &
Analysis



WK52711

Standard Practice for Post-Remediation Verification (PRV) Following a Fungal Remediation Project



Challenges

- ASTM writes *consensus* standards
- Available guidance documents conflict
- Opinions are predicated on interests
- Money and politics

But it's not our first rodeo!

Objective

Produce a document that is
reliable, reproducible, reasonable
And
allows for professional judgment

Workshops

- Two workshops- Jacksonville, Anaheim
- Speakers from all points of view
 - Consultants
 - Insurers
 - Remediation contractors
 - Lawyers

Main Issues

- Sample or not to sample
 - Passive or aggressive
- NAMs on or off
- Data Interpretation

To Sample

- Provides documentation
- Types of samples
- Numbers of samples and locations
- Passive or aggressive sampling
- Predetermine criteria
- Lawyers and Insurers are more in favor

..... Not to sample

- Is it necessary, is visual enough?
- Data reliability
- Data interpretation
- Cost

Negative Air Machines **ON**

- Maintain integrity of containment, minimize potential migration
- Aerosolize settled spores
- Several guidance documents stipulate

Negative Air Machines **OFF**

- Fungal spores in make up air
- Not like asbestos jobs
- Not representative
- Guidance Document ≠ Requirement

Data Interpretation

- Predetermine
- Based on type of samples
- Statistics and precision data

Progress to date

Scope:

- Minimum elements needed for PRV
- Informed by professional judgment
- Not all projects may need PRV
- Not addressing remediation scope or practices
- Not applicable if materials have been replaced

Simple Philosophy

- HAVE A PLAN
- Implement the Plan
- Document the Plan

Simple Objectives

- Is it Dry?
- Is it clean?
- Is the cause fixed?

Progress to date

Minimum elements

- a written scope of PRV
- criteria for acceptance of the findings of the PRV
- performing a visual assessment
- documentation of sampling (if performed)
- documentation of verification findings

Progress to date

Significance and Use

- Confirmation of remediation
- If materials replaced then it reverts to a Building assessment
- Sampling strategy is not discussed
- Platform for consistency and quality

Progress to date

Elements development:

- Project understanding
- Establishing criteria for acceptance
- Instructions to remediation contractor before PRV or project conditions prior to PRV

Progress to date

Elements development:

- Visual inspection
- Conclusions and observations
- Documentation
- Optional data that may inform the conclusions (criteria established in advance)

Additional procedures

- Moisture diagnostics – air, surface, materials
- Air infiltration study – tracer gas, blower door
- Surface temperature study – thermal imaging
- Water penetration study – spray testing
- Intrusive inspection – boroscope or destructive testing
 - Asbestos, lead, tradesmen
- Air or surface sampling – interpretation criteria

Next Steps

- Subcommittee ballot
- Continued development
- Guide or practice?
- Main committee ballot (D22)
- Finally an Society (Public) review Ballot

Summary

- Provide a platform of standard procedures for a PRV
- It will include the use of professional judgment
- Provide a standardized way of documenting PRV
- Build it with consensus, so it is truly useful
- Integrate other ASTM standards, guides and other recognized documents
- Join ASTM D22.08!

Summary

- ASTM provides a platform to develop standards that are relevant, reproducible and robust
- Standard methods provide a foundation for impartial evaluation, interpretation and characterization
- Build it with consensus, so it is truly useful
- Join ASTM D22.08!

Future D22 Meetings

2019 Committee Meetings

March 31-April 3 Denver

October 20-23 Houston

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D22.08 : Assessment, Sampling, & Analysis of Microorganisms

Chair: Lisa Rogers



Thank You
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Committee D22.08

Questions?

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