



H C Fennell Consulting, LLC

Applied Foam Technologies and Commissioning

Outline – Safely installing SPF in occupied buildings – Preparation and testing protocols

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1. General

1.1. Introduction – Safety notifications

- 1.1.1. Convince the AHJ and other local stakeholders this is safe
- 1.1.2. Notify the occupants and address any issues
- 1.1.3. Project approvals
- 1.1.4. Plan the installation

1.2. Isolation

- 1.2.1. Physical barriers
- 1.2.2. Depressurization and ventilation
- 1.2.3. Verification

1.3. IAQ testing

- 1.3.1. Preliminary
- 1.3.2. During the installation
- 1.3.3. Post-work verification

1.4. Case studies as time allows

Abstract - Safely installing SPF in occupied buildings – Preparation and testing protocols

As we all know, evacuation is always the best way to protect occupants of a building. However, in some retrofit situations, evacuating the occupants is not practicable, especially in projects where the work will take long periods of time.

Isolation is a way to safely protect the occupants of a building during an installation, but the isolation methods and verification protocols must be rigorous and adequate to assure that there is no exposure to the occupants. These protocols must be adequate to convince the AHJ and other local stakeholders that this is really possible and completely safe. (96)

This presentation will outline the protocols required to safely install SPF in occupied buildings. (110)

The process is outlined using a case study to show where the protocols are used, how they are performed, and how they were verified. (134)

Learning objectives:

1. Participants will be able to Convince the AHJ and other local stakeholders this approach is safe.
2. Participants will be able to plan hazard communication, Work zone isolation, and real-time air quality and pressure isolation protocols.
3. Participants will be able to implement physical and ventilation isolation and IAQ testing.
4. Participants will understand how to generate pressure difference and laboratory IAQ data to use in verifying that the entire project was executed safely.