



What is deflagration?

Deflagration isolation is a technique that can interrupt or mitigate the effects of a deflagration, including flames and pressures, between enclosures that are interconnected by pipes or ducts (NFPA 69, 2019).

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- Hammer mills,
- Dust collectors,
- Bucket elevators,
- Drag chain conveyors, and Cyclones

105

1. Report any dust you see accumulating or leaking from equipment.
2. Complete routine maintenance and inspections according to equipment manufacturer and company specifications to help improve system reliability.
3. Follow electrical safe work procedures to ensure system is not disabled after maintenance; ensure work orders specify To re-arm any sensors or re-open any valves following maintenance.
4. Post signage in the areas where isolation system sensors are located (if applicable) to make personnel performing maintenance aware.
5. If you are designated as personnel to perform maintenance and inspections, ensure you receive specialized training on Equipment from supplier.
6. Perform regular routine cleaning of systems (e.g., sensors, valves); as necessary; determine frequency based on operation and characteristics.
7. Follow supplier manuals for installation and contact suppliers if unsure. Ensure contractors have knowledge and skills to correctly install equipment.
8. Perform preventative maintenance to keep flap valves in good working order. Regularly clean valves to remove any dust deposits or accumulations that could impede the valve's ability to close. Never modify a flap valve without approval from a qualified engineer or the supplier.
9. Ask your supervisor if you are unsure about the location of isolation systems, how the systems operate and how you should respond if a given system activates.
10. If you see something, say something. If you observe any unusual system activities like false activation or warning lights and sounds, or an unapproved system modification, report it to your supervisor.

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