Dust Hazard Analysis

ADF Engineering
PROBLEM SOLVED

What is a Dust Hazard Analysis (DHA)?

In September 2015, NFPA issued NFPA 652 – Standard on the Fundamentals of Combustible Dust. This new standard integrates all of the older, industry specific standards, such as NFPA 61, 654 and 664, into a more consistent set of rules.

The key new requirement is that food or grain facilities have until September 2020 to complete their DHA's. This critical safety document identifies the specific combustible dust risks and establishes a mitigation plan for the site.

The DHA is similar to a Process Hazard Analysis, and aims to guide facilities through determining the combustibility of their dusts and to plan and design to mitigate potential hazards. ADF has developed a simple, cost-effective process to complete DHAs.

Materials to Test

- Sugar
- Flours
- Powders
- Dry Ingredients

Areas to Watch

- Loading and intake
- Milling
- Mixing
- Blending and batching
- Bag handling
- Dry cleaning
- Storage
- Ingredient additions

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ADF Knows DHAs

ADF Engineering can take your facility through the entire DHA process. From testing your dusts to designing process and equipment upgrades, we have the knowledge and experience to assist you at every step.

Performing a DHA

- Analyze dusts at an approved testing lab
- Determine any hazardous areas in the facility
- Identify and rank possible explosion scenarios
- Identify safe operating ranges for each dust
- Evaluate existing safeguards within the facility
- Identify deficiencies requiring new or improved safeguards

Related Services

- Dust sampling and testing
- Process analysis
- Hazard identification
- Safety studies
- Redesign options
- Facility and process updates

Design and Implementation

- Decide based on the written DHA what improvements are needed
  - Some companies may not need improvements for NFPA 652 compliance
- Develop an implementation plan for making improvements
- Options ADF can review with you:
  - Design and specification
  - EPC (Engineer, procure, and construct)