

Dust Hazard Analysis (DHA) & Screening Tool

The Challenge

A large agribusiness corporation with multiple sites needed to conduct process risk assessments for combustible dust hazards. Key areas included facility dust accumulation and equipment such as dryers, bins, and packaging systems. The challenge was to develop a fit for purpose Dust Hazard Analysis (DHA) to meet industry and corporate requirements while remaining cost effective and efficient.

The Solution:

RISK Inc. applied industry standards and corporate requirements to develop a fit for purpose DHA methodology. We collaborated with corporate subject matters experts to make sure it aligned with internal resources resulting in a methodology that improved existing hazard approaches. The execution of the DHA involved operations, engineering, site management and corporate combustible dust subject matter experts.

The DHA examined housekeeping, process equipment, dust combustibility parameters, facility siting, human factors, ignition control, and safety management system effectiveness. Subsequent DHAs within the company incorporated lessons learned from initial studies, resulting in a more robust and consistent methodology.

By conducting the detailed DHAs we identified that many other sites may still have combustible dust hazards but may not need the level of scrutiny in the detailed analysis. We developed a coarse screening tool to identify fundamental gaps in combustible dust hazard management at those dozens of sites.

The Result:

Using this DHA methodology & approach led to identification of undiscovered hazards and unrecognized near misses, as well as practical recommendations to improve site safety. Development of the screening tool led to a practical and easy to use resource for sites where a detailed DHA was not the appropriate first step to evaluate combustible dust hazards. The screening tool helped sites easily identify and address areas of highest priority for managing combustible dust hazards. Contact us for a free copy of the screening tool.

Client Description

Company
Multinational Corporation

Project Location
US Sites

Industry
Agribusiness

Annual Revenues
\$110+ Billion

Employees
150,00+ employees

RISK, Inc. Solution
Development of DHA Methodology

Get expert guidance for process safety success

Partner with us for your DHAs

Contact us at info@psmrisk.com

Call us at 510-828-7228 to talk about your needs