

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 tool helped sites easily identify and address areas of highest priority for managing combustible dust hazards.

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

Do you need support for DHAs?
Contact us at info@psmrisk.com
Call us at 510-828-7228 to talk about your needs