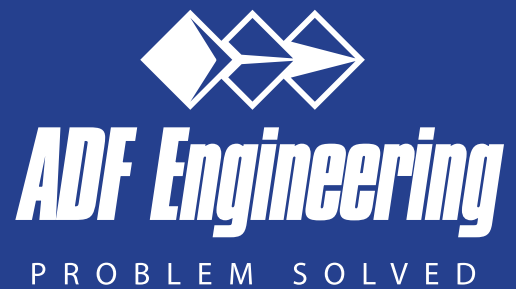


# Hoods for Loadout Area Dust Control



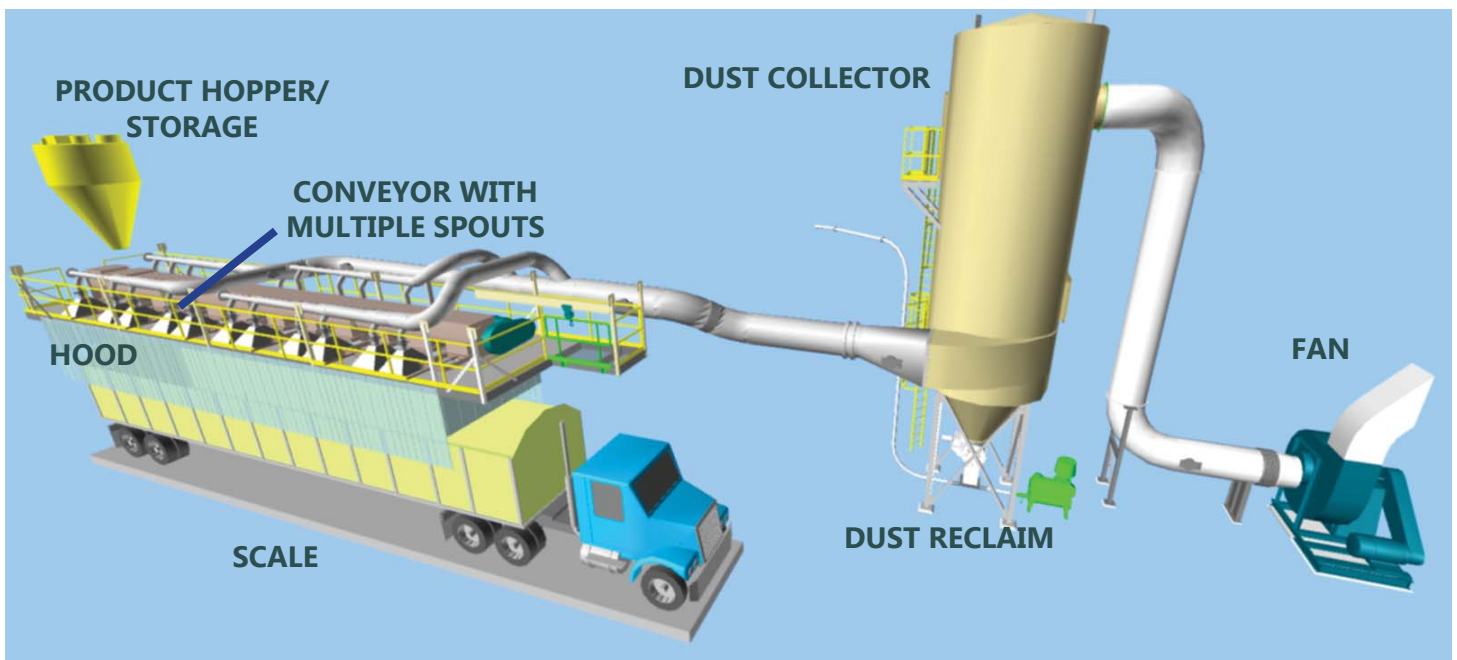
## WHY IS DUST CONTROL IMPORTANT IN LOADOUT AREAS?

Dust control is a serious issue for any facility that loads bulk product into trucks or railcars. Fugitive dust creates health hazards for employees, is an explosion risk, and is wasted as lost product if not properly dealt with and returned back to storage. Under NFPA 652, all facilities handling combustible dusts must have a Dust Hazard Analysis (DHA) and implementation plan on file. Loadout areas are also impacted by food safety requirements.

## ADF'S PACKAGED SOLUTION

This innovative system featuring loadout hoods with air ducts, dust collectors, fans, and conveying systems for dust collection at the truck bay. This solution can be customized for different bulk materials and different types of trucks. ADF manages the engineering design, equipment, fabrication, installation, and startup.

An example design is below.



## THE ADF ADVANTAGE:

- Protects your employees from dangerous dusts or being caught in a combustion scenario.
- Designed to meet proper Electrical Area Classification needs.
- Includes conducting a DHA if necessary to comply with NFPA 652 and impending OSHA regulations.
- Designed to minimize product loss by returning collected dust to product stream entering truck or rail.
- Our customizable, turnkey solution results in lower overall costs.
- Fugitive dust control means less cleaning.
- Faster loading and increased productivity.

## APPLICATIONS

- Corn Ethanol
- Millers and Dry Distillers Grain
- Feed and Food Ingredients
- Oilseeds
- Dry Chemicals
- Minerals
- Paints and Coatings
- Agriprocessing
- Wood Processors
- Dry Bulk and Powder Goods Manufacturers



**ADF Engineering**

PROBLEM SOLVED

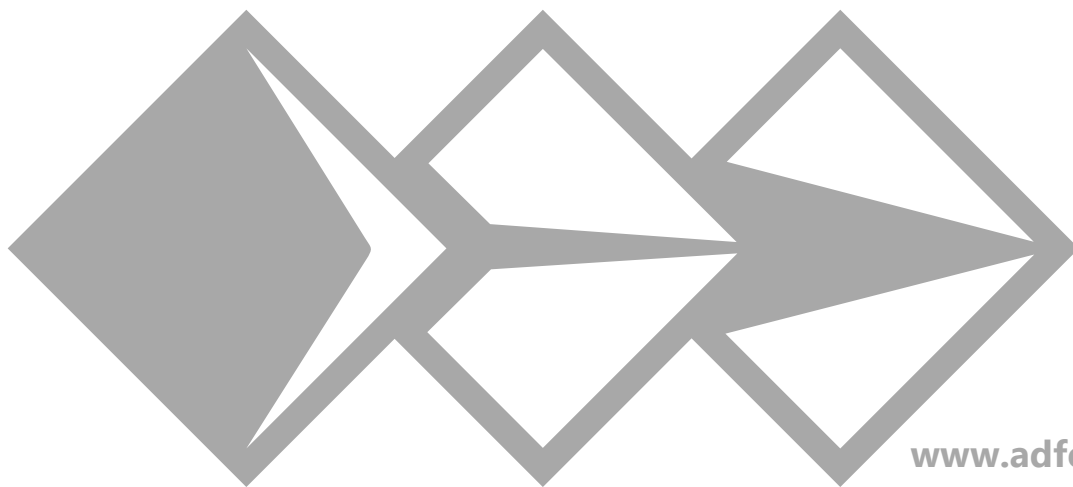
# Additional Services

## Process Engineering

- Process Flow Development Using “Smart” Flow Diagrams
- Mass and Energy Balances
- Process Scale-Up
- Process Modeling and Simulation
- Process Optimization and Debottlenecking
- “Intelligent” P&IDs
- Equipment Sizing and Specification
- Process Alternative Evaluations
- Process Control and Instrumentation
- Piping Design with 3D Piping Models
- Ventilation, Temperature, and Humidity Control
- Material Handling and Conveying
- CIP Capacity and System Design
- Start-Up Services
- Process Validation

## Facility Engineering

- Master Planning and Feasibility Studies
- Utilities Design for:
  - Steam
  - Compressed Air
  - Process and Utility Water
  - Waste Water Treatment
  - Electrical Power
  - Emissions Control
- Equipment Layouts and 3D Modeling
- Structural Engineering:
  - Foundations and Equipment Supports
  - Buildings, Pipe Racks, and Towers
- Storage Bins, Tanks, Pressure Vessels Design
- HVAC and Environment Control
- Electrical, Instrumentation, Automation, and Controls
- 3D Laser Scanning and Modeling
- Experienced in OSHA, NFPA, FDA, IBC, and Food Safety Compliance



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