

# DUST SOLUTIONS, INC.

WWW.NODUST.COM | SALES@NODUST.COM



## WEST COAST SALES OFFICE

13023 NE HWY 99 STE. 7-402  
VANCOUVER, WA 98686  
USA

TEL: 1 360-546-0072  
FAX: 1 360-546-0073

## CORPORATE HEADQUARTERS

130 BAY PINES ROAD  
BEAUFORT, SC 29906  
USA

TEL: 1 843-846-3700  
FAX: 1 843-846-3701

## LATIN AMERICA SALES OFFICE

CASILLA POSTAL 185, VILLA ALEMANA  
5º REGION, VALAPARAÍSO  
CHILE

TEL: 56 32-253-1799



*Dust Solutions, Inc. has helped mining clients achieve dust emission and safety compliance requirements for over 25 years. Our Dry Fog systems are considered a Best Demonstrated Technology for Sub-bituminous Coal by the U.S. Environmental Protection Agency.*

*For more information, visit our website or contact your local representative.*

**DUST CONTROL**  
*FOR*  
**MINING**  
**APPLICATIONS**

# DUST CONTROL FOR MINING APPLICATIONS

## MINED ORE MUST UNDERGO NUMEROUS PROCESSES BEFORE IT IS CONVERTED INTO A MARKETABLE COMMODITY.

Each stage of processing including extraction, transport, crushing, screening, grinding, and drying has the potential to generate fugitive dust emissions. If control technologies are inadequate, hazardous levels of respirable dust may be liberated into the work environment, potentially exposing workers and neighboring areas.

## CRUSHING & SCREENING

Mined ore is fed into machinery that crushes and breaks down raw material into coarse fragments. The material stream may be screened and discharged into different processing lines or routed to a secondary or tertiary crusher for further reduction. As rock or coal becomes more finely ground, the potential for in-process dust generation and release become greater.



DSI Dry Fog and DustTamer systems are installed at the primary crusher to prevent dust from escaping the hatch.

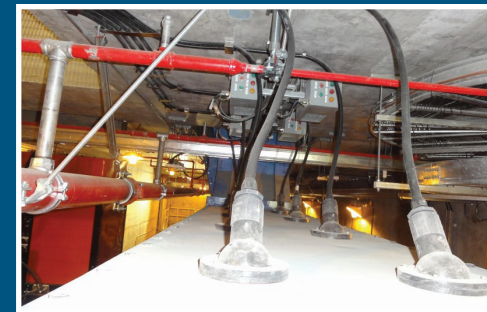
## TRANSFER POINTS

As underground and surface mine conveyor systems help move material from the active mining area to processing and transportation areas, Dry Fog systems suppress dust by using fog particles to agglomerate to airborne dust particles and return them to the process.



## STACKER / RECLAIMER

Dry Fog used in combination with DustTamer windfence encloses the discharge chute and controls dust during the stackout process.



Stackers are used to pile bulk materials onto a stockpile. Alternatively, reclaimers recover the materials from the stockpile. Dry Fog is effectively used to prevent the separation of fines and control dust coming off of the belt, as the material is in freefall to the stockpile, and as it impacts the stockpile.

## INSTALLATIONS

We combat fugitive dust at all phases of the mining process. Dry Fog systems have proven effective in suppressing the most challenging dust, including PM 2.5 and PM 10, in remote locations where electrical power and water are limited and in harsh climates where temperatures reach below freezing.

Our systems have helped clients meet environmental compliance while improving emissions and safety in the following types of mines:

- BAUXITE
- COPPER
- COAL
- GOLD
- GYPSUM
- IRON ORE
- LIMESTONE
- NICKEL
- NITRATES
- MANGANESE
- MOLYBDENUM
- PHOSPHATES
- POTASH
- SILVER
- ZINC