

TYPICAL SPECIFICATION
MARTIN[®] Mr. FOAMER[™] Dust Suppression System

The conveyor loading zone will be equipped with a dust suppression system that applies a foamed mixture of suppressant chemical and water to minimize the escape of airborne dust.

The dust suppression system will work by the metering of a dust suppression additive into a supply of water, generating a foam mixture of water and supplement, and applying this mixture over the body of material. This mixture will encourage the agglomeration of fine particles and inhibit the driving off of airborne dust.

The dust suppression system will include a pump module, containing a proportioning pump (0-20 GPM) with the addition of from 0.2-1.5% additive, a regulator (25-75 PSI), a gate valve, and a flow meter (0-20 GPM).

The air and water/additive mixture are combined in a foaming chamber. The inlets for the air and water/additive lines are equipped with check valves to prevent backflow. An air gauge located on the foam chamber will allow control of air pressure to create fully developed foam.

The produced foam is applied to the material on the conveyor through up to eight "duckbill" nozzles connected to uniform hose lengths. The nozzles will be installed in the chute wall through a cam mechanism to allow simple removal for maintenance.

The Dust Suppression System will be a MARTIN[®] Mr. FOAMER[™] Dust Suppression System, as supplied by Martin Engineering, Neponset, Illinois.

