

Client and Application:

Established in 1878, SGS transformed grain trading in Europe by offering innovative agricultural inspection services. The Company was registered in Geneva as Société Générale de Surveillance in 1919. Shares were first listed on (SWX) Swiss Exchange in 1985. Since 2001, they had only one class of shares consisting of registered shares. The current structure of the company, consisting of ten business segments operating across ten geographical regions, was formed in 2001. From their beginnings in 1878 as a grain inspection house, they have steadily grown into their role as the industry leader. They have done this through continual improvement and innovation and through supporting their customers' operations by reducing risk and improving productivity. In one of their buildings at Lakefield Ontario, they crush and blend rocks in an enclosed room (65'L x 45'W x 13.5'H). When they operate, the airborne concentration of dust is too high which causes loss of visibility in 3-5 minutes. Therefore, they required a dust collection system to remove the dust cloud and reduce the dust concentration without interfering with the operation. The system needed to match the following design criteria:

- Constant air exchanges
- Special capture hoods and diffusers, and duct design to eliminate any interference with floor space with no head room issues
- High efficiency filtration system in order to return the clean air and save on energy (reclaim heated air)

Solution:

The solution was ambient capture (push & pull system). AST installed a 20,000 CFM dust collector for capturing and filtering the abrasives for the crushed rock dust. This amount of airflow creates an air exchange every 2 minutes in the room which keep the visibility and air quality at an acceptable level. Therefore, the airborne dust is getting captured and filtered during the hours of operation constantly. Note: AST provided the client with 3D design drawings of the installation and coordinated with the mechanical installer to make sure everything was installed based on the design.

Equipment:

One (1) VH 2-12 PowerCore dust collector
One (1) AST-HDBI-300 BI centrifugal floor mounted 50HP TEFC fan
One (1) inlet box and inline silencer
One (1) AST-CP-50HP-575V control panel including w/ Delta P Plus controller

Installation pictures:

Please click on the first picture below to play the video:



Industry:

Mining

Contact:

For an update on the performance of the system, please contact:

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