Controlling Silica Exposures

CalCIMA Spring Thaw • Ontario & Sacramento, CA • February 26 & March 20, 2019

Meghan Neal, Area Safety Manager

trust earned daily

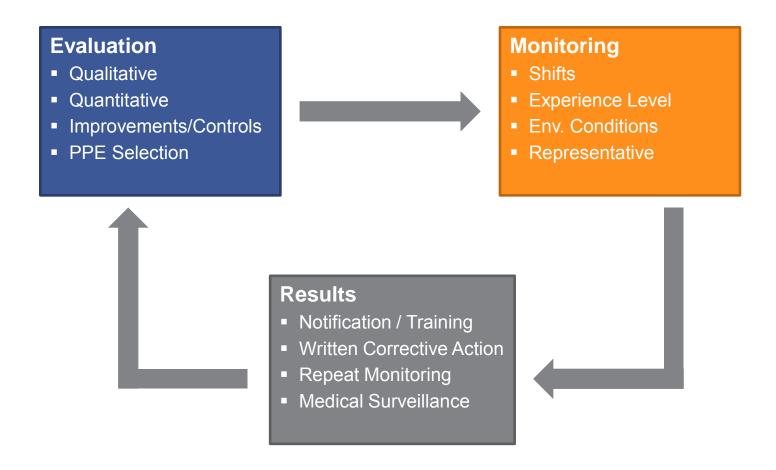








Silica Management Program





Evaluation / Controls



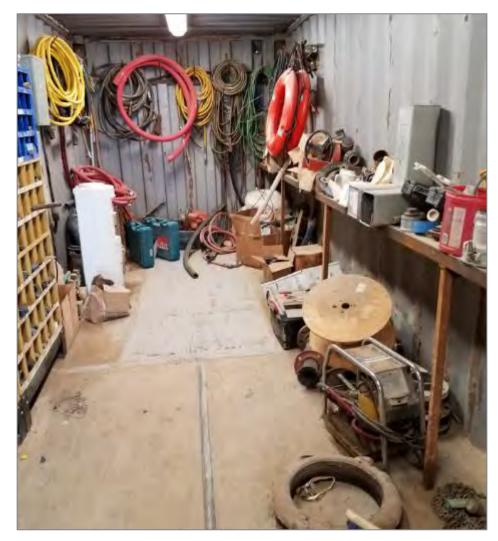
Prohibited Practices

- Use of Compressed Air
 - Unless used in conjunction with a ventilation system that effectively captures the dust cloud created by the compressed air
- Dry sweeping and Dry brushing are prohibited
 - Where such activity could contribute to employee exposure to silica unless wet sweeping, HEPA filtered vacuuming or other methods that minimize the likelihood of exposure are not feasible





Housekeeping









HEPA Vacuums



Dustless HEPA Certified Contracto...
evacuumstore.com



HEPA Pack Backpack Vacuu... homedepot.com



Pullman Holt HEPA Cannister... spycor.com



HEPA Vacuum Cleaners | All... allergybuyersclub.com



Aramsco - Syclone HEPA Vac...



HEPA-Vacuums ...



Industrial H.E.P.A. Vacuums...



HEPA Vacuums | Pneumatic, Electri...



Power Tools







Power Tools





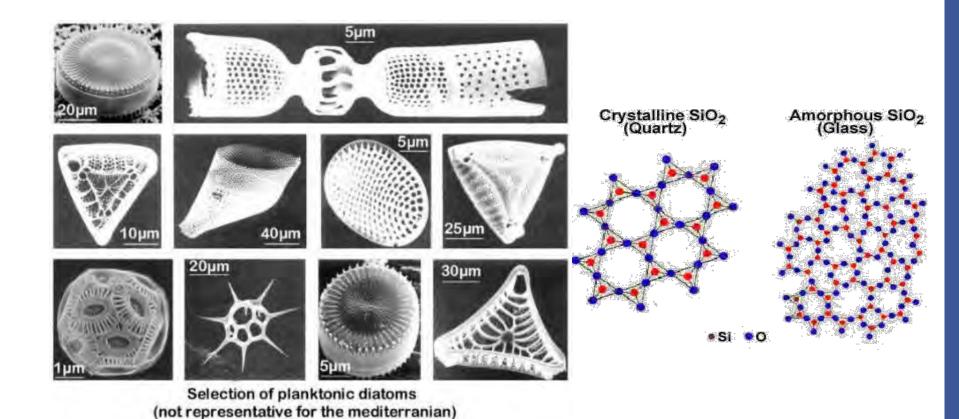






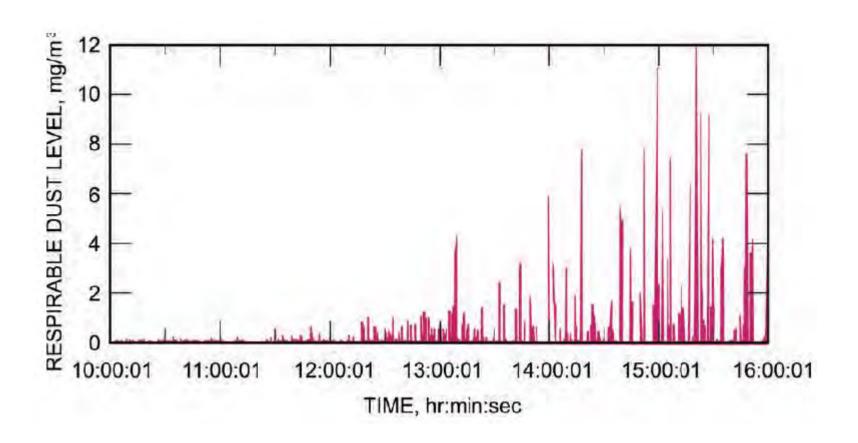


Substitution/Elimination



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Wet Roadways





Automation



Figure 3 - Left side shows screenshot of EVADE software of miner performing manual deployment of scraper device with high peak in dust exposure shown in the bottom of the screen; right side shows photo of new pneumatic system to eliminate worker performing the task.



By Andrew B. Cecala and Andrew D. O'Brien

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Remote Access

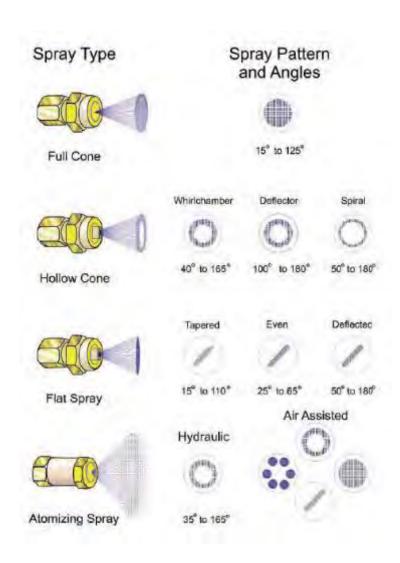


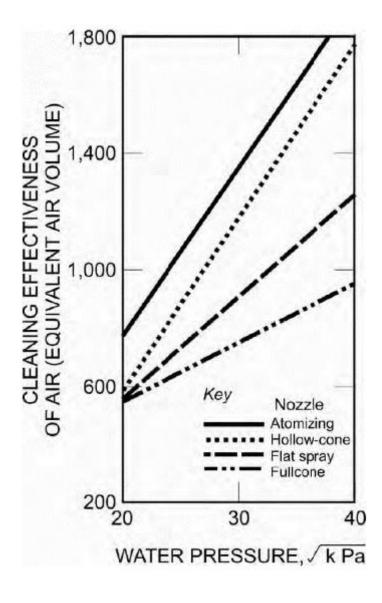






Water





Conveyors





Conveyors





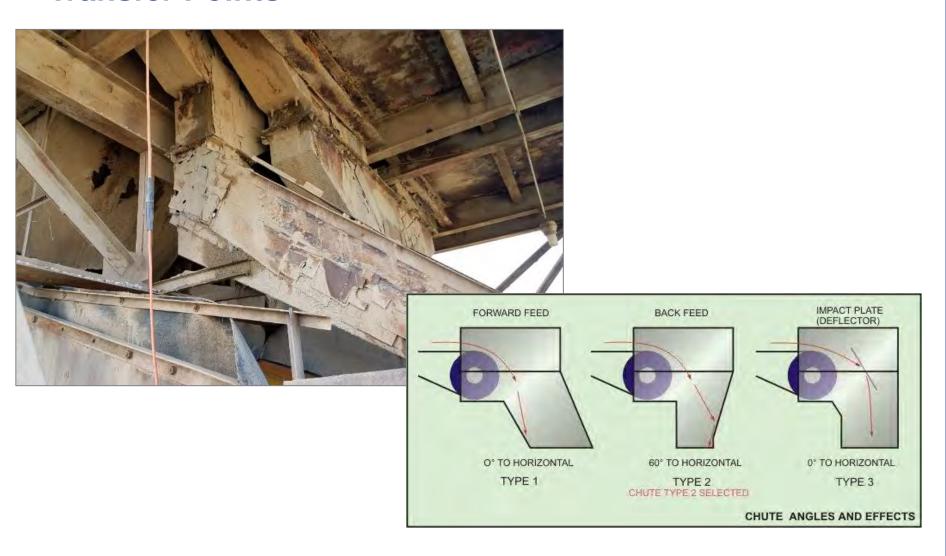


Crushing



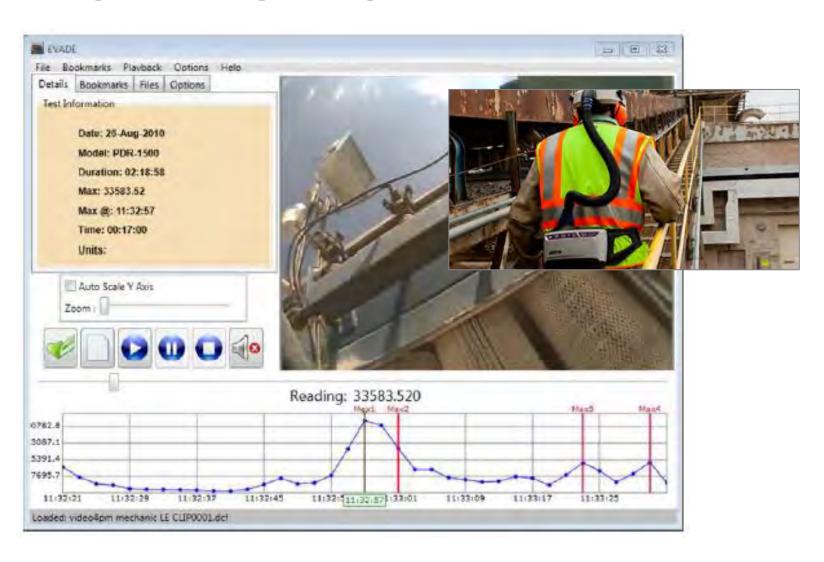


Transfer Points



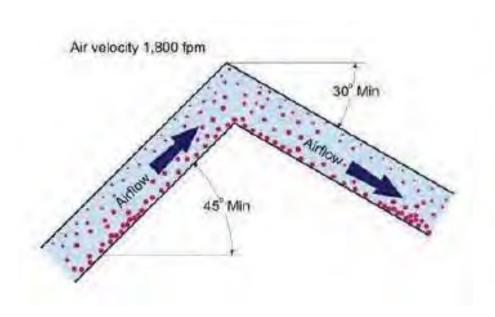


Baghouse Bag Changes





Local Exhaust Ventilation



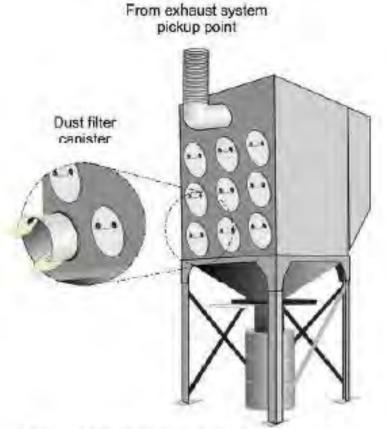
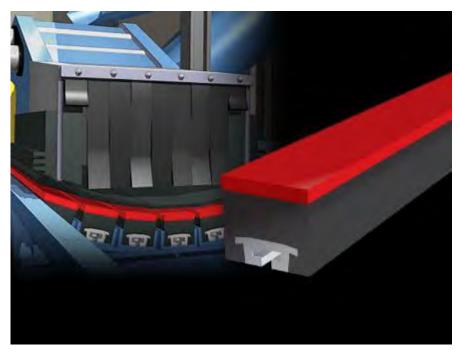


Figure 4-7. Canister-type dust collector system.

Transfer Points





Screens





Kiln demo

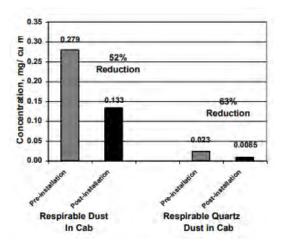


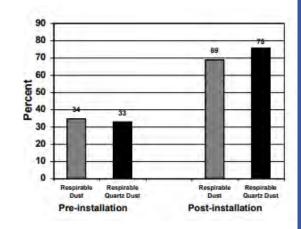


OSHA's New Silica Standard – Meghan Neal

HEIDELBERGCEMENTGroup

Enclosed Cabs









Vinyl Seats



• 78% lower exposure to cleaner cab (e.J. Haas and A.B. Cecala, Min Eng. 2017 Jul; 69(7): 105-109)



Foam Pads



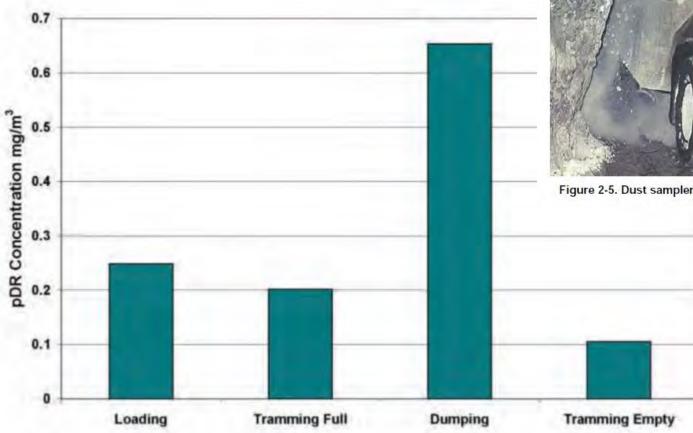


Building Design





Dumping

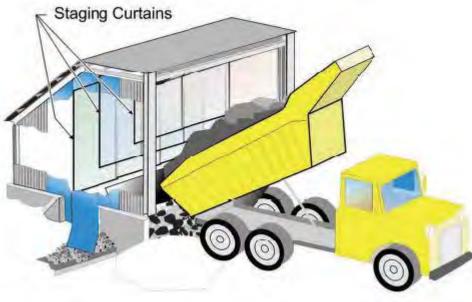


Dust samplers

Figure 2-5. Dust samplers mounted on haul truck in gold mine.

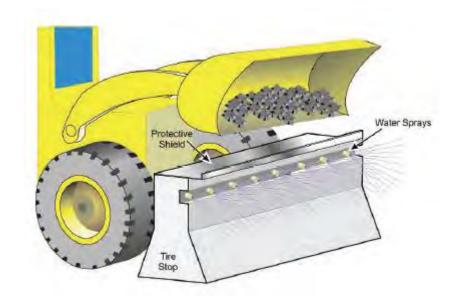
Enclose the Primary Hopper







Dumping



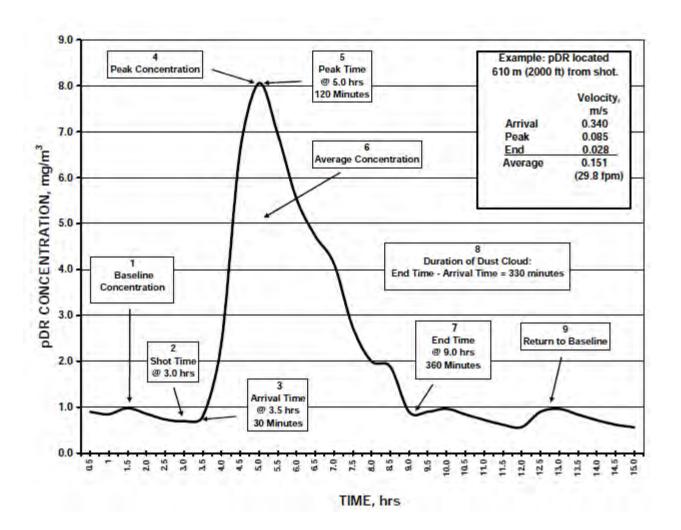


Drilling & Blasting





Underground Blasting





Clothes Cleaning Booth



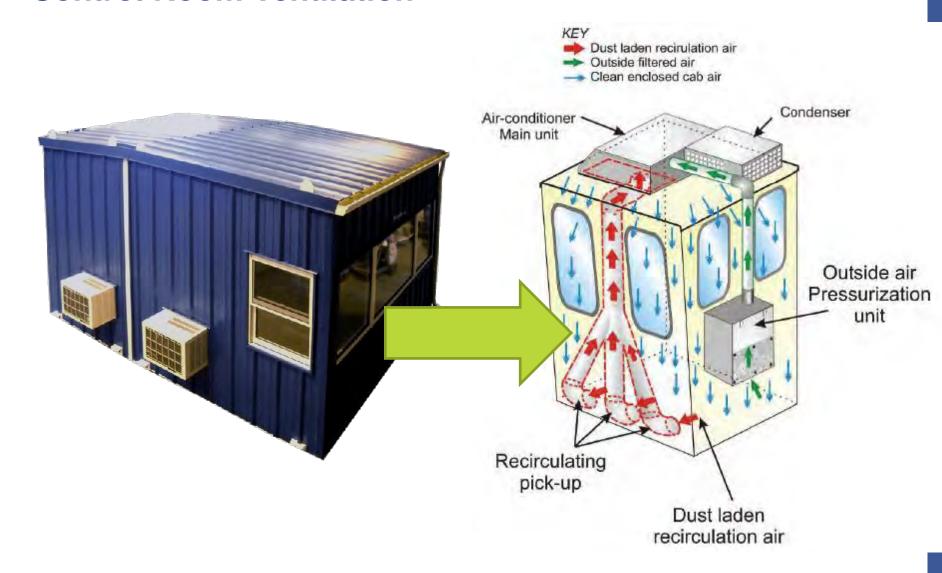




Slide 34 3/26/2019 Name of presentation – author

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Control Room Ventilation





Bagging

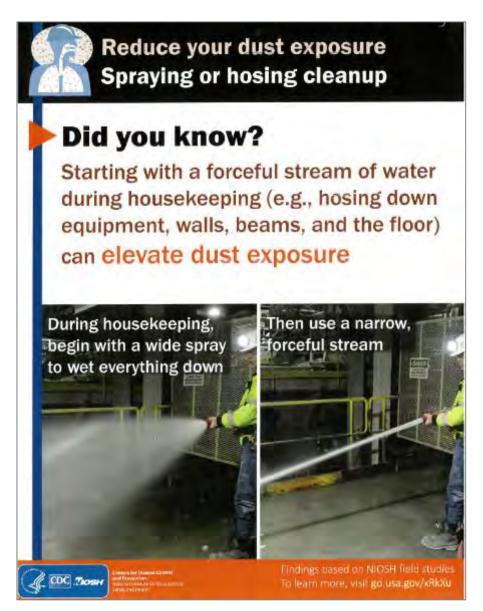


Clapping/Climbing





Water





Thank You

