Vulcan Materials
Corona Stone
Safety Innovations
2019
Safe Access Ladder

- Used for entering and exiting 7’ Symons Cone Crusher
- Previously employees would need to climb in and out of crusher
- Risk of slip, trip and fall hazards, as well as likelihood of strain from overextending body
- Previously used plywood to cover openings
- Plywood would tip to one side depending on body placement
- Aluminum cover provides snug fit, eliminating the risk of a tripping hazard if employee stands to one side
- Eliminated fall hazard
- Eliminated risk of splinters
Conveyor Crossover
Access to crusher area previously required miners to travel to end of conveyor and back around, which is approximately 300 feet.

Crossover was erected to reduce this length to approximately 60 feet.

Resulted in reduction of risk of slips, trips and falls.

Reduction in time to complete tasks while working on crusher.
Widened Transfer Point
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- Transfer point was consistently becoming congested with material causing blockage
- Discharge portion of box was widened and lengthened
- Eliminated miners risk of having to enter transfer point, having to use hand tools to unplug which could cause pinch points
- Reduction in risk of ergonomic strain from prying material/tools
Knaack Box at Jaw Deck
Knaack Box at Jaw Deck

- Eliminates the need for employees to transport heavy/bulky tools up and down the stairs
- Commonly stored tools include: porta power, 1” gun, impact gun, impact sockets, air hose, electrical extension cords, various sized bolts for jaw crusher
Rolling Tool Carts
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- Provided in multiple areas of the plant for tool and parts storage while performing maintenance tasks
- Reduction of tripping hazard of having tools and parts on walkways
- Elimination of ergonomic hazards of bending over to pick up tools; brings items to accessible level
Used for cribbing heavy equipment
Replaces old 8x8 and 12x12 wood cribbing which tended to crack, split, and soak up oil and grease, and were extremely heavy
Composite does not absorb oil, and has a 50 year warranty
Lock together so they do not slip out from one another
Reduced risk of back or shoulder strain from trying to lift; elimination of line of fire hazard if cribbing slipped
Blade Lifter
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- Replaced chain with single hook, had chances for pieces to become unsecured (line of fire)
- Eliminated pinch points when lifting
- Reduced the risk of strain from trying to secure equipment