

Spring Thaw 2018

CALCIMA

**California Construction and
Industrial Materials Association**

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Workplace Examination



MSHA 30 CFR 56.18002
Surface
Metal/Nonmetal





Workplace Examination

Why do we do perform them?

- Required by MSHA.
- It is my job to make sure my area is safe.
- To find hazards and correct them before we start the Plant.
- Imminent danger, pull employees out of area





Workplace Examination



A miner was seriously injured when the expanded metal walkway suddenly failed. The miner fell 10 feet directly to the ground below. The expanded metal walkway was covered with conveyor belt to aid in the shoveling spillage. The conveyor belt allowed corrosive material to accumulate and accelerated the deterioration of the expanded metal. Further, the application of the conveyor masked the signs of deterioration on the walkway, making a thorough workplace examination difficult.





MSHA Program Policy Letter



Purpose :

- To clarify the examination of working places required under CFR 56.18002
- To identify hazardous conditions and eliminate, mitigate, or correct hazardous conditions in a timely manner



56/57.18002 - Examination of Working Places



1. A **competent** person designated by the operator shall examine each working place at least once each shift for conditions which may adversely affect safety or health. The operator shall promptly initiate appropriate action to correct such conditions.

2. A **record** that such examinations were conducted shall be kept by the operator for a period of one year and shall be made available for review by the Secretary or his authorized representative.

3. In addition, **conditions** that may present an imminent danger which are noted by the person conducting the examination shall be brought to the immediate attention of the operator who shall withdraw all persons from the area affected until the danger is abated.



Definitions



“Competent person”, is a ***“person having abilities and experience that fully qualify him to perform the duty to which he is assigned.”***

“Working place”, is defined as : ***“any place in or about a mine where work is being performed.”***

As used in the standard, the phrase applies to all locations at a mine site where miners work in the extraction or milling processes. This includes areas where work is performed on an infrequent basis, such as areas accessed primarily during periods of maintenance or clean-up. All such working places must be examined by a competent person at least once per shift.

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Work Place Exam Expectation

- A **competent person** examines the working place **before** miners begin work in that location.
- Mine operators promptly notify miners of any conditions that may adversely affect their safety or health.
- A **competent person** signs and date the examination record before the end of shift. The examination record must include a description of locations examined, conditions found and corrective actions taken.
- **Records** must be available for inspection by MSHA and miner's representatives, and operators must provide a copy of the records upon request.





56.2003 - Housekeeping



At all mining operations -

- (a) Workplaces, passageways, storerooms, and service rooms shall be kept clean and orderly.
- (b) The floor of every workplace shall be maintained in a clean and, so far as possible, dry condition. Where wet processes are used, drainage shall be maintained, and false floors, platforms, mats, or other dry standing places shall be provided where practicable; and
- (c) Every floor, working place, and passageway shall be kept free from protruding nails, splinters, holes, or loose boards, as practicable.



Housekeeping





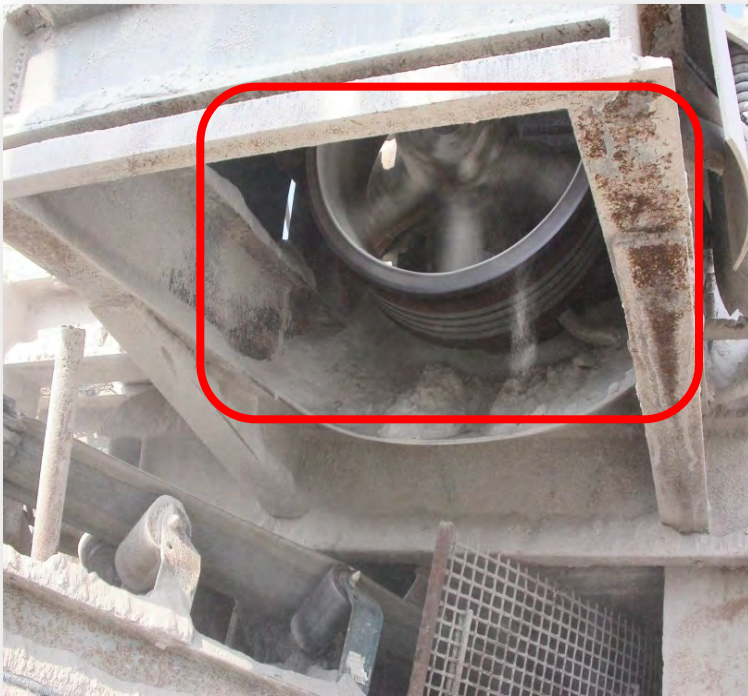
56.14107 Moving Machine Parts



- (a) Moving machine parts shall be guarded to protect persons from ***contacting gears, sprockets ,chains, drive, head, tail and take-up pulleys, flywheels, couplings, shafts, fan blades*** and similar moving parts that can cause injury.
- (b) Guards shall not be required where the exposed moving parts are at least seven feet away from walking or working surfaces.

Unguarded Machine Parts

MISSING GUARD



**GUARD NEEDS REPLACEMENT
PRIOR TO START UP**





56.14112 Construction and Maintenance of Guards

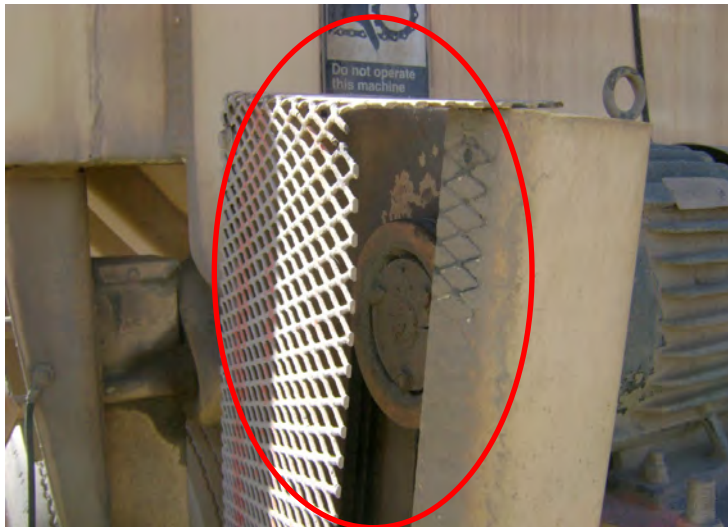


(a) Guards shall be constructed and maintained to:

(1) ***Withstand*** the vibration, shock, and wear to which they will be subjected ***during normal operations.***

(2) Not create a hazard by their use.

GUARDS NOT PROPERLY CONSTRUCTED OR MAINTAINED





56.3200 High Walls

- This standard prohibits work or travel, other than corrective work, in areas where hazardous ground conditions exist. Posting of a warning against entry is required until corrective work is completed if workers could enter the area inadvertently.



High Walls

Severely Undercut High Wall



Deteriorating conditions may not be visible from below



56.12008 Electrical Standards

Power wires and cables shall be insulated adequately where they pass into or out of electrical compartments. Cables shall enter metal frames of motors, splice boxes, and electrical compartments through proper fittings. When insulated wires, other than cables pass through metal frames, holes shall be bushed with insulated bushings.



56.12032 Inspection and Cover Plates

Inspection and cover plates on electrical equipment and junction boxes shall be kept in place at all times except during testing or repairs.



56.12004 Electrical Conductors

- Electrical conductors shall be of a sufficient size and current carrying capacity to ensure that a rise in temperature resulting from normal operations will not damage the insulating materials.

Electrical conductors exposed to mechanical damage shall be protected.



56.122028 Testing Grounding Systems

- Continuity and resistance of grounding systems shall be tested immediately after installation, repair, and modification, annually thereafter. A record of the resistance measured during the most recent tests shall be made available on a request by the Secretary or his duly authorized representative.



56.12018 Identification of Power Switches

- Identification of principal Power Switches shall be labeled to show which units they control, unless identification can be made readily by location.





56.4201 (a)(2) Fire Extinguishers

- (a) Firefighting equipment shall be inspected according to the following schedules:
- (2) At least once every twelve months, maintenance (service) checks shall be made of mechanical parts, the amount and condition of extinguishing agent and expellant, and the condition of the hose, nozzle, and vessel to determine that the fire extinguishers will operate effectively.
- Monthly visual inspection to insure that extinguisher is mounted in proper place, clear of obstacles, inspected, and tagged. Fully charged with discharge pin in place and in working order.



56.4201 (a)(2) Fire Extinguishers

What is wrong?



What is wrong?





56.9300 Berms and Guardrails

- (a) Berms or guardrails shall be provided and maintained on ramps, banks or roadways where a drop-off exists of sufficient grade or depth to cause a vehicle to overturn or endanger persons in equipment.
- (b) Berms or guardrails shall be at least mid-axle height of the largest self-propelled mobile equipment which usually travels the roadway.



56.9300 Berms and Guardrails



**RAMP WITHOUT PROPER
BERMING MAINTAINED AT
MID AXLE HEIGHT.**



**BERMS MUST BE CONSTRUCTED AND
MAINTAINED TO CONTROL THE TYPE
OF MOBILE EQUIPMENT USED ON THE
MINE SITE.**

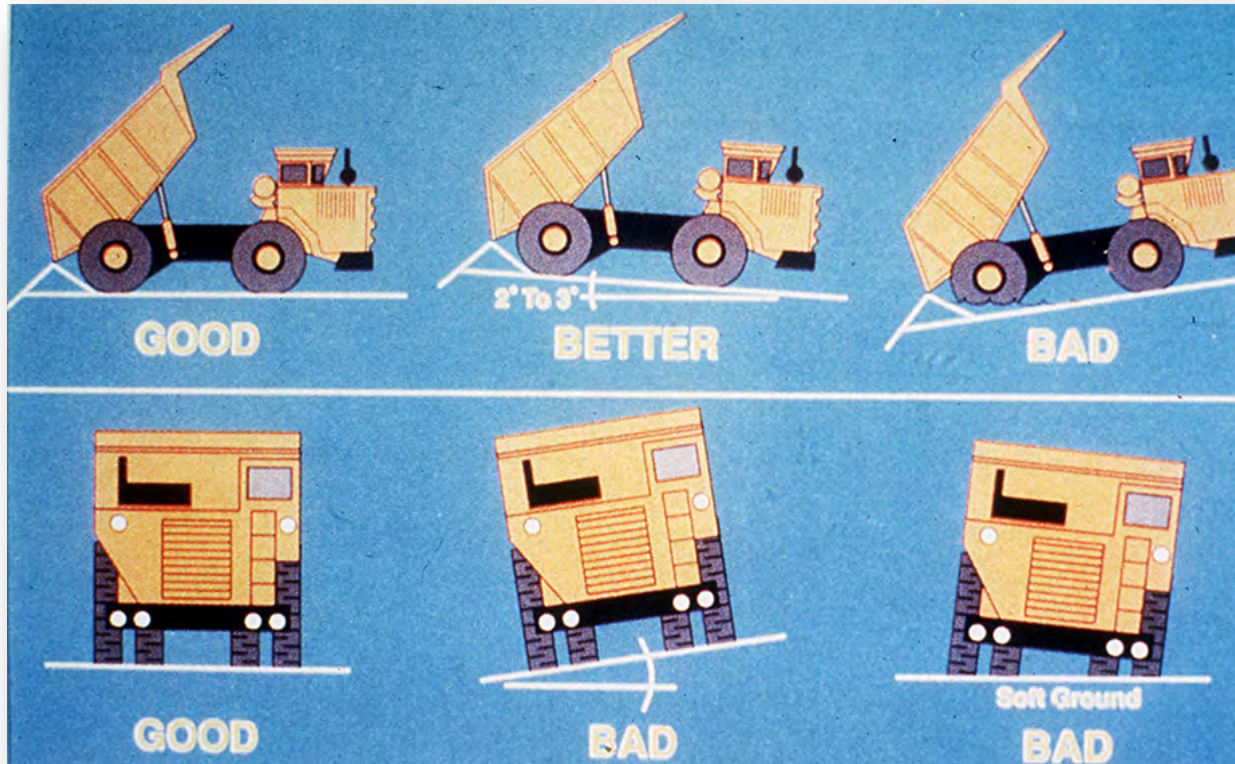
56.9301 Dump Points

- Dumpsites shall be inspected prior to work and as ground conditions change. If there is any indication that the edge is unstable, loads should be dumped a safe distance away from the edge.



Dumpsites should be examined frequently as mining conditions change

56.9301 Dump Points



Other





Work Place Exam Abatement

Any deficiencies found must be abated and dated on the work place examination form in a timely manner.



WORKPLACE DAILY EXAMINATION RECORD																
DATE: _____		PLANT: _____														
TIME: _____		PLANT AREA: _____														
SATISFACTORY: Y NON-APPLICABLE: N/A																
NON-SATISFACTORY: N																
HOUSEKEEPING										SUN	MON	TUE	WED	THU	FRI	SAT
Walkways, steps & decks clear of material build-up, oil, debris																
Elevated Walkways and Handrails, toe boards in good condition																
Floorboards, decking, cleats in good conditions																
Guards in place and in good condition																
Conveyor rollers properly guarded																
Hoses, shovels, etc. properly stored																
Flammable material storage																
Hopper/Dump																
ELECTRICAL																
Pull cords in place and Operational																
Electrical cover plates & plugs in place																
Any exposed wiring?																
Lights working and guarded																
Circuit breakers & boxes clearly labeled																
Electrical extension cords adequately, marked, & currently tested																
Electrical installation & LOCK OUT procedures																
FIRE EXTINGUISHERS																
Mounted in proper place, clear approach, properly inspected & tagged																
Fully charged with discharge pin, ABC																
AREAS EXAMINED																
Haul roads																
Traffic signs																
Berms																

[illegible]



Thank you!

