ROSEVILLE CRUSHED LLC
SAFETY PROGRAM FOR SURFACE MOBILE EQUIPMENT

COVERED LOCATION(S)

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SUBCHAPTER K: Subpart T—Safety Program for Surface Mobile Equipment

§ 56.23000 AND 57.23000 PURPOSE AND SCOPE.
This subpart requires operators to develop, implement, and update a written safety program for surface mobile equipment to reduce the number and rates of accidents, injuries, and fatalities. This subpart applies to surface mobile equipment at surface metal and nonmetal mines. The purpose of this safety program is to promote and support a positive safety culture and improve miners' safety at the mine.

DEFINITIONS

- ***Responsible Person - A person with authority and responsibility to evaluate and update a written safety program for surface mobile equipment.***
- ***Surface Mobile Equipment - Wheeled, skid-mounted, track-mounted, or rail-mounted equipment capable of moving or being moved, and any powered equipment that transports people, equipment, or materials, excluding belt conveyors, at surface metal and nonmetal mines.***

§ 56/57.23003 WRITTEN SAFETY PROGRAM.

(a) The operator shall develop and implement a written safety program that includes actions the operator will take to:
(1) Identify and analyze hazards and reduce the resulting risks related to the movement and the operation of surface mobile equipment.

- Responsible person at each location will discuss, document (digital or paper), and implement if needed, ways to reduce risk related to movement and the operation of surface mobile equipment.
  Possible changes are:
  - Increase use of signage
  - Procedural changes to tasks that remediate identified risks
  - Identify blind spots on equipment and install additional devices
  - Change traffic patterns
  - Limit or prohibit small vehicles and foot traffic in high-risk or high-volume areas
- Discussions and Documentation is not limited to:
  - Review of Site Specific (by location)
  - Annual review of ROSEVILLE CRUSHED LLC vehicle/pedestrian segregation
  - Toolbox talks, Safety Alerts, MSHA Fatalgrams, Stand Downs
  - Safety Committee input
  - Direct observations and Near Misses

(2) Develop and maintain procedures and schedules for routine maintenance and non-routine repairs for surface mobile equipment.

- Routine maintenance, warranty work, and non-routine maintenance or repairs found during pre-operational inspections will be performed by ROSEVILLE CRUSHED LLC maintenance technicians, outside

vendors, or manufacturers' representatives. All routine maintenance is scheduled as outlined in the equipment's Operator's Manual or determined by individuals retained to perform maintenance services.

(3) Identify currently available and newly emerging feasible technologies that can enhance safety at the mine and evaluate whether to adopt them.

- Annually ROSEVILLE CRUSHED LLC will review their mobile equipment through our strategic planning and equipment replacement program. Equipment replacements and or upgrades in technology, including new safety features, are added as feasible. Some examples are:
  - Seat belt alarms and seatbelt color
  - Collision warning or avoidance systems
  - GPS
  - Cameras
  - Mirror and vision enhancements
  - Lights
  - Reflective Tape

(4) Train miners and other persons at the mine necessary to perform work to identify and address or avoid hazards related to surface mobile equipment.

- Task training and/or site specific hazard training are standardized processes at our sites. Records will be kept on site or can be accessed upon request. If additional information is needed during task training, it can be added or noted on the task training form (refer Form A "MSHA Task Training Template").

(b) The responsible person shall evaluate and update the written safety program at least annually, or as mining conditions or practices change that may adversely affect the health and safety of miners or other persons, as accidents or injuries occur, or as surface mobile equipment changes or modifications are made.

- The responsible person will review and document the provisions of SUBCHAPTER K: Subpart T annually or as mining conditions change. Changes will be noted and kept in section - SUBCHAPTER K: Subpart T (refer to Form B "Safety Program for Surface Mobile Equipment: Program Evaluation" and Form C "Safety Program for Surface Mobile Equipment: Technology Evaluation").

(c) The operator shall solicit input from miners and their representatives in developing and updating the written safety program.

- ROSEVILLE CRUSHED LLC will conduct an annual review of the Surface Mobile Equipment Safety Program with the use of meetings to collect input of miners. (refer to "Mobile Equipment Safety Toolbox")

§ 56.23004 RECORD AND INSPECTION

(a) The operator shall make the written safety program available for inspection by authorized representatives of the Secretary and provide a copy upon request.

(b) The operator shall make the written safety program available for inspection by miners and their representatives and, at no cost, provide a copy upon request.

- A copy of this program will be kept on site or made available to the Secretary or authorized representative upon request and will be reviewed annually with miners and their representatives.

NEW TASK TRAINING RECORD/CERTIFICATE

Full Foreman Name (Print) _____

Contractor Name _____

New Task 30 CFR Part 46.7	Material Type	Date	Competent Person	Location (Name & Address if Institution)

False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety and Health Act

I certify that the above training has been completed

_____

Signature of person responsible for health and safety training Date

FORM A

Safety Program for Surface Mobile Equipment:
PROGRAM EVALUATION

Foreman ID:_____

Foreman Name:_____

Reason(s) for Program Evaluation:

- ☐ Annual evaluation
- ☐ Change in mining conditions or practices
- ☐ Accident or injury
- ☐ Surface mobile equipment change or modification

Evaluation Findings:

Program Update(s):

As a result of the evaluation, was the Safety Program for Surface Mobile Equipment updated?

- ☐ No
- ☐ Yes

Name of Responsible Person:_____

Date of Program Evaluation:_____

Safety Program for Surface Mobile Equipment:
TECHNOLOGY EVALUATION

Foreman/Employee Name:_____

Evaluation Method(s) & Dates:_____

☐ MSHA Assistance (e.g., EFSMS); Date _____

☐ Quarterly Stakeholder Meetings/Calls; Date(s) _____

☐ Training Resources Applied to Mining (TRAM); Date _____

☐ MAA Annual Meeting Workshop; Date(s)_____

Name of Workshop(s)

_____

_____

_____

☐ Guidance Documents; Name of Documents:_____

☐ MSHA Website/App; Name of Materials:_____

☐ Other (e.g., vendor consultation):_____

Date(s)_____

Name of Responsible Person: _____

Date of Technology Evaluation:_____

Mobile Equipment Safety Toolbox



www.msha.gov/poweredhaulage

Powered Haulage Collision Prevention - Best Practices

The driver of this van was able to walk away; many aren't so lucky. Image courtesy of MSHA

Establish and Follow Site Traffic Plan

- Know haul road traffic patterns and stay on your side of the road.
- Avoid driving in reverse whenever possible.
- Keep small equipment away from large equipment.
- Avoid parking in haul truck load and dump zones.
- Create safe zones around large equipment. Park only in safe zones.
- Maximize width of haul roads.

Establish and Follow Site Communication Plan

- Large equipment always has the right of way.
- If you must approach large equipment, first make eye contact or radio contact with the operator.

Know Blind Spots

- **DO NOT ASSUME** large equipment operators can see you or small equipment.
- Before moving, large equipment operators need to know if other equipment or vehicles are near.
- If a large equipment operator is not certain of his/her surroundings, or does not know for sure that the way is safe, radio others and get an **ALL CLEAR** signal before moving.



Image courtesy of ConvergenceTraining.com

To Avoid Tragedy, Follow These Best Practices

- Identify small equipment using whips, flashing lights, or other visibility devices.
- Stay focused: Distracted driving is not acceptable on highways or mine property.
- Avoid drowsy driving. **NEVER** drive under the influence of drugs or alcohol.
- **ALWAYS** keep back-up alarms and horns operational.
- Operators: Blow horn and pause before moving stopped equipment. Follow site protocol for number of horn blasts for forward or reverse.
- Consider collision warning technologies and added safety features, such as cameras, sensors and radar.

IMR-NA

Alliance
An MSHA Cooperative Partnership

U.S. Department of Labor
MSHA
Mine Safety & Health Administration

Safety Alert

Powered Haulage Accidents

Stop Powered Haulage Accidents: Stay Alert! Stay Alive!

- Fatalities and accidents involving mobile equipment: shuttle cars, scoops, locomotives, front end loaders, haulage equipment, service and pickup trucks continue to occur at a disproportionate high rate.
- Mobile equipment accidents: collisions and/or struck by.
- Powered haulage accidents continue to cause nonfatal, disabling injuries.



Roadway design and poor visibility at a nearly blind intersection were the root causes of a miner's death when his pickup was crushed by a haul truck.



A miner died when underground shuttle cars collided in an intersection. One shuttle car trammed through a ventilation curtain without stopping or warning.

Best Practices*

- **Know where in the workplace others are and communicate with them:** use radios, mirrors, cameras, headlights, strobe warning lights, horns, and buggy-whip flags. Stay clear of mobile equipment blind spots.
- **Set mobile equipment parking brakes and chock the wheels when vehicles are unattended:** Don't stand, walk or work directly downhill of parked vehicles. Stay clear of moving vehicles.
- **Establish safe traffic patterns and rules:** post signage, ensure rules are followed, adhere to speed limits and approach intersections with caution.
- **Use proximity detection/collision avoidance systems.**
- **Ensure that seat belts are maintained in good condition and worn at all times.**
- **Ensure that conveyors are deenergized, locked, tagged and blocked against motion before removing guards or beginning work.**

***Make sure miners and mine operators are trained in best practices.**