



Safety Program for Surface Mobile Equipment

Ver. 1.0 | Release Date 07/16/2024

Reference Documents

- [Freeport-McMoRan Equipment Reliability Standards](#)
- [HS FCX-23 Interaction with Heavy Mobile Equipment- Surface Road Design, Light Vehicles & Ground Personnel](#)
- Site H&S Training Plan
- Task Training Records (LMS)
- FRM Tools
- Henderson Property/Engine List
- Maintenance Tools, Work order system, will have information for repairs, PM and mobile equipment inventory.
- Work Place Examination and Pre-Op inspection documents
- Control Room/Dispatch processes
- RCM- vibration, thermal/infrared technologies
- MSHA Subpart T

Program

OVERVIEW

This is the Freeport McMoRan Henderson Operations Program for Surface Mobile Equipment Safety. It applies to all operational activities and persons responsible for operation and/or maintenance of powered mobile equipment including 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 at surface locations of site. This applies to contractors and subcontractors, where applicable. The Henderson H&S Manager, or delegate, is responsible to evaluate and update the program annually or as mining practices change.

MSHA program requirements; A written safety program includes actions taken to:

1. Identify and analyze hazards and reduce the risks related to the movement and operation of surface mobile equipment.
2. Develop and maintain procedures and schedules for routine maintenance and non-routine repairs for surface mobile equipment;
3. Identify currently available and newly emerging feasible technologies that can enhance safety at the mine and evaluate whether to adopt them; and
4. Train miners and other persons at the mine to identify and address or avoid hazards related to surface mobile equipment.

1. 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.
2. The operator shall solicit input from miners and their representatives in developing and updating the written safety program.

Site Program Elements and ACTIONS TO STAY SAFE

- **Identify and control risks with surface mobile equipment**
 - Pre-operation inspections are required to be completed by operators, prior to the movement/operation of surface mobile equipment.
 - Workplace Exams are utilized to inspect the work area.
 - Where appropriate, Job Risk Assessments will be used to evaluate job assignments.
 - Where appropriate, Fatal Risk Management tools will be used to lead work planning discussions and verifications in the field for critical control effectiveness.
 - Equipment will be provided with appropriate safety devices applicable to the hazards in the area. These may include mirrors, cameras, safe access, lighting, horns, back alarms, etc...

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- For Road design, Light Vehicles & Ground Personnel interaction with Heavy Mobile equipment reference [HS FCX-23](#)
- Equipment operators will apply control practices, as trained, to mitigate identified hazards.
- **Maintenance**
 - Equipment will be inspected prior to operated and follow BO Process for critical components.
 - Routine maintenance is scheduled per OEM guidance and/or following Freeport-McMoRan Equipment Reliability Standards
 - Non-routine repairs- where needed standard procedures are developed to control risk for conducting routine maintenance and repairs. Job Risk Assessments are performed (as required) prior to work commencing.
 - Refer to SAP and Planning department for individual equipment requirements.
- **Emerging Technologies**
 - We capitalize on opportunities we have in the USA to pilot technologies at various sites owned and operated by Freeport-McMoRan Inc. to better understand if emerging technologies can enhance the work environments.
 - Examples include working with Industry leaders in Electrification of Haul Trucks and autonomous technologies.
 - Digital tools are utilized to assist in enhancing the work environment.
 - Departments utilize different methods to evaluate ideas brought forward by Spv and Operators.
 - Mine Operators and H&S Representatives or others may attend various seminars, research technology throughout the year.
 - Operators/Miners will be provided opportunity to share feedback on designs, and ideas for enhancing safety performance in various methods but not limited to tailgate meetings, communication meetings and open-door methods.
- **Training Miners**
 - All Miners, per MSHA training plan, will receive part 48 New Miner Training and annual refresher.
 - Miners will attend FRM training.
 - All Miners will be provided task training for the equipment they operate. Remedial training will be provided where appropriate.
 - Operators and Training attendees will be solicited for feedback on enhancing training methods.
 - For more details on training, reference training section of [HS FCX-23](#)

Contractors

Contractors must have their own program, including their subcontractors unless they will be included in their main contractor's program, or coordinate with Henderson Operations to integrate into this site program.