



Advancing Miner Safety

MITIGATING RISKS WITH MODJOUL'S
BILATERAL COLLISION AVOIDANCE SYSTEM

3/1/24

MSHA Safety Program for Surface Mobile Equipment

The Mine Safety and Health Administration (MSHA), under the Department of Labor, has recently finalized the Safety Program for Surface Mobile Equipment rule, **effective from January 19, 2024.**

This crucial regulation requires mine operators to develop, implement, and regularly update a written safety program for surface mobile equipment, excluding belt conveyors. Collaboratively developed with input from miners and their representatives, the program aims to identify and mitigate hazards, ultimately reducing accidents, injuries, and fatalities associated with surface mobile equipment.



In September 2022, MSHA proposed Rule 86 FR 50496, part of a comprehensive effort to enhance the safe use of mobile and powered-haulage equipment. This rule mandates mine operators with six or more miners to design a written safety program, emphasizing hazard identification and encouraging training for risk identification and mitigation. Comments on the proposed rule, solicited until November 8, 2021, showcased diverse opinions, particularly regarding the balance between technological solutions, like proximity detectors, and behavioral and cultural changes.

To find out more about how to partner with Modjoule, please contact:

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Modjoul's Solution for Mining Safety

An impactful addition to the safety landscape is **Modjoul's offering of bilateral collision avoidance for powered haulage vehicles.**



Addressing the need for advanced safety measures, Modjoul's system provides real-time notifications to both the driver and miners when powered haulage equipment is in proximity. Utilizing ultrawide band technology, the system establishes safety rings around the vehicle, distinguishing between warning and danger zones. Miners, equipped with their own safety ring, receive notifications when within proximity. The system tracks and compiles data, offering insights into vehicle-to-vehicle and vehicle-to-miner interactions.

Motivated by a new methodology derived from 730 injuries and 6 fatalities annually, MSHA's final rule, effective from January 19, 2024, sets a compliance deadline of July 17, 2024. Mine operators, especially those with six or more miners, must submit a written safety program for surface mobile equipment, integrating specific actions to mitigate accidents, including the adoption of new technologies.

Modjoul's Commitment to Mine Safety

To aid compliance with the new MSHA safety regulations on powered haulage, mine operators should adhere to the powered haulage safety guidance outlined by MSHA. [[Safety Program for Surface Mobile Equipment \(MSHA\)](#)]. Modjoul's system, operating on ultrawide band technology, offers robust protection against vehicle-to-vehicle and vehicle-to-miner accidents and satisfies the new technology part of the rule.

The overarching goal of the new rule is to eliminate collisions with miners, prioritizing their safety. Modjoul's innovative system serves as a valuable tool to meet regulatory requirements and, most importantly, ensure the well-being of miners, ensuring they return home safely each day.