



Potential Fatal Event: Haul Truck Drives through Berm

Preliminary Incident Details

Operation	Climax
Date / Time	July 5, 2023 / 5:18 a.m.
Type	Property Damage
Summary	A fully loaded haul truck was traveling downhill on a haul road and failed to make a turn. The truck went through two berms before coming to a stop against the face of a hill near a steep drop off. The contractor driver was assessed at the clinic and released without any injuries.
Fatal Risk	Vehicle Collision or Rollover
Risk Category	Monitor
Pre / Post Rating	Significant (3) Possible (2)
Findings / Missing Controls	Failure to engage downhill speed control
Applicable Policies / Procedures	Interaction with Heavy Mobile Equipment (2.6)
Employee Condition	No injury
Contact	Tanner Thetford, Superintendent-Mine Operations

Photos / Links



Final location of haul truck



Potential Fatal Event Learnings: Haul Truck Drives through Berm

Causal Factors

- Haul truck operator traveled at 15 mph down a 10% grade ramp (no grade % or speed signage exists) with a 240-ton load without activating the dynamic braking speed control, as suggested by manufacturer
- Haul truck operator feathered the dynamic brakes, which was an ineffective action to keep the haul truck (Liebherr T264) within the braking capabilities
- Haul truck operator did not use the service brake (secondary) to slow the truck down when the dynamic braking system (primary) was ineffective

Action Items	Hierarchy of Controls
Install grade % and speed signage as a visual cue for haul truck drivers on downhill ramps	Administrative
Retrain operators (task training) on use of Liebherr T264 dynamic braking application, downhill speed control and service brake application	Administrative
Set the adjustable speed limit (brake governor) on all Liebherr T264 trucks on-site. Climax and Thiess will determine the proper speed	Engineering

Additional Learnings / Opportunities

- Climax and Thiess health and safety personnel will have ongoing conversations with operators about pre-job expectations
- Thiess supervisors will conduct routine checks to verify operators are wearing the proper PPE
- Thiess will assign a ReadiWatch to employees to meet its fatigue management contract agreement
- Climax has communicated DSS eyewear requirements to supervisors

Fatal Risk Management Controls

- Operating Competency – Sufficient**
- Fit For Work and Fatigue Management – Sufficient**
- Vehicle Preoperational Inspection – Insufficient**
 - Have I conducted a pre-operational inspection prior to use (specific for the vehicle)?
- Positive Communication System – Sufficient**
- Access Control – Sufficient**
- Segregation – Sufficient**
- Signage and Demarcation – Insufficient**
- Road Design And Maintenance – Sufficient**