

Potential Fatal Event: Haul Truck Collides with Articulated Truck

Preliminary Incident Details		
Operation	PT Freeport Indonesia	
Date / Time	May 19, 2023 / 10:36 a.m.	
Туре	Property Damage	
Summary	A loaded haul truck collided with an articulated dump truck while coming around the curve of a haulage road. The haul truck turned to far to the right, causing the right outer wheel to hit the right front structure of the articulated truck. Damage included a broken rightwing mirror bracket, shattered glass pane and mangled right fender. No one was injured.	
Fatal Risk	Vehicle Collision or Rollover	
Risk Category	Actionable	
Pre / Post Rating	Significant (3) Likely (3)	
Findings / Missing Controls	Positive communication Segregation controls for heavy equipment/light vehicles	
Applicable Policies / Procedures	SOP-4.04-EWHL-006-00: Truck Operations at Grasberg SOP-SM-2.18-PIT-016-01: Articulated Truck Operations at Surface Mine SOP-404-EWLP-001-02: Articulated Truck Operations at Grasberg	
Employee Condition	No injuries	
Contact	Norman Aprianto, Safety Compliance Officer	

Photos / Links



Damage to the right front side of the articulated truck



Skid marks visible on outer right wheel of haul truck



Potential Fatal Event Learnings:

Haul Truck Collides with Articulated Truck



Causal Factors

- Haul truck operator turned to far to the right around the curve in the haulage road.
- Articulated dump truck operator failed to meet safe driving procedures (did not come to a full stop, was cleaning cab window while in motion)
- · Lack of traffic management controls at the curve in the road

Action Items	Hierarchy of Controls
Review and update Standard Operating Procedures for haul truck operations and articulated dump truck operations.	Administrative
Recommunicate SOPs to appropriate crews. For articulated dump truck operation, this includes the need to stop in a safe position when conducting other activities and to always maintain positive communication (eye contact/radio communication).	Administrative
Construct traffic segregation berm along the curve of the road	Engineering
Review road design and ramp entrance	Engineering
Develop and construct traffic management improvements in the area as well as other areas with narrow access	Engineering

Additional Learnings / Opportunities

- Compliance with current Heavy Equipment Operation procedures needs to be more consistent.
- Need to reemphasize the importance of always maintaining positive communication.

Fatal Risk Management Controls

Pre-Operational Check – INSUFFICIENT

Records of pre-op check were not available after the incident

Human Factors - SUFFICIENT

Seatbelts were used and operators were fit for duty.

Operator Competency – INSUFFICIENT

 Both operators were operating their equipment in ways that deviated from procedure

Road Design & Condition – SUFFICIENT

 Road design and conditions met standards at the time of the incident. However, design specs are being updated to improve engineering controls used to mitigate this risk.

Communication - INSUFFICIENT

 The AT operator used the horn to warn the HT operator, but this was not effective.