

MDG 2 – Locomotive Incidents

Incident Information	Agent of fatality	Events	Recommendations
OPEN CUT MINES			
22/10/2007 United States Non-Coal Open-Cut	Other	Miner was walking across a rail yard to uncouple loaded railway cars when he was struck by a yard locomotive.	
19/02/2007 United States Non-Coal Open-Cut	Other	Victim was on loaded train cars when they struck a haul truck which was crossing the track.	Management should ensure they have traffic control policies and enforce these.
28/11/2005 New Zealand Non-Coal Open-Cut	Other	Victim riding on rail carriage fell off when rake of wagons jolted	
18/08/2004 United States Non-Coal Open-Cut	Other	Deckhand was killed when fatally struck by moving railcars while repositioning them.	Perform risk assessment to identify hazards before moving railcars and a safe work procedure for moving railcars.
6/08/2002 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A contract switchman was fatally injured at a trona mine. The accident occurred at night. The victim, switching cars at a surface load out area, was caught between a 15-car train he was riding and a stationary car as the train moved.	Provide illumination to recognize hazards in work areas. Identify possible hazards and safe work procedures before moving rail cars. Provide communications between personnel assigned to move rail cars. Maintain a clearance at least 30" between equipment.
7/08/2001 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A utility man was fatally injured when he was pinned between a rail car and tractor coupling. After noticing a coupling had disengaged, the victim directed the driver back and attempted to reconnect when the rail cars rolled, pinning him.	Rail cars to be isolated prior to persons travelling or working in hazardous area. Couplings used to attach mobile equipment to rail cars to be provided with controls that open and close coupling without exposure to injury.
19/09/1999 United States Coal Underground	Other	A mechanic was fatally injured while unloading rail locomotive power assemblies from a flat bed service truck. Victim lost his balance and grabbed one of power assemblies. Unstable assemblies and victim fell off truck. One of assemblies hit victim in head	Ensure there is adequate space to work. Stabilize heavy machinery before applying rigging. Utilize adequate lifting devices for the type of work to be performed.
1/07/1998 United States Non-Coal Open-Cut	Unintended Operation of Equipment	A serviceman was fatally injured when his road sweeper was struck by a train. Accident occurred in a rail tunnel beneath a cement storage silo. Train begun backing through tunnel when it hit sweeper; pinning sweeper with driver inside against tunnel wall.	Prior to moving trains a warning to be sounded. Where restricted clearance creates a hazard to persons on mobile equipment the restricted area to be conspicuously marked. Rules governing the direction of movement be established and followed.

4/05/1998 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A mechanic was fatally injured at a stone quarry. The victim was performing repairs under a rail car when a remotely controlled locomotive impacted the car. The victim was run over when he attempted to crawl out from under the car.	Derailing devices be installed between workers on rail cars and moving equipment. A warning to be sounded prior to moving trains. Remote controlled locomotives only to be used when operator can maintain visual contact with locomotive and all cars.
20/10/1997 United States Non-Coal Open-Cut	Unintended Operation of Equipment	A leadman was fatally injured cleaning the weigh scale in front of a 125T locomotive and ten cars that were not isolated from movement. When four cars were attached to the rear of the parked train, it moved forward and the engine ran over him.	Before commencing work on equipment or near equipment, the equipment must be appropriately isolated, chocked and or locked out in accordance with isolation procedures.
24/07/1997 United States Non-Coal Open-Cut	Uncontrolled Release of Energy	A mechanic was fatally injured while assisting 2 other mechanics replace brake shoes on a rail road engine. The engine had been hoisted by a crane and blocked with 4x4 inch wooden blocks. The engine rocked and fell off the block, landing on the mechanic.	
4/10/1996 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A weighmaster was fatally injured when it was believed victim attempted to set or release brakes on the open-top rail cars which were to be taken for loading. He fell between rail cars and was found lying across tracks pinned by wheel of a rail car.	All employees should be trained in work safe procedures. Before attempting a hazardous task all people involved in work place should be notified
14/04/1966 Australia New South Wales Coal Open-Cut	Other	Was assisting to unload a battery operated mini locomotive when the trolley started to move, flung off the electrician and struck him in the head as it passed, killing him.	
1/01/1963 Australia New South Wales Non-Coal Open-Cut	Other	Run over by a steel skip on which he was riding, and was thrown from the skip	
1/01/1956 Australia New South Wales Coal Open-Cut	Unintended operation of Equipment	Haulage motor failed to stop an alligator in which the deceased had been riding, and it fell on him	
1/01/1956 Australia New South Wales Coal Open-Cut	Other	Fell under a train on which he had been riding	

UNDERGROUND MINES			
21/04/2006 United States Coal Underground	Unintended Operation of Equipment	Electrician was checking hydraulic pressure on tram while outside operator compartment and the tram was caused to move, trapping him against a belt Conveyor.	Development and implementation of a maintenance plan hen operating on equipment.
7/04/2006 United States Coal Underground	Fall of Roof/Sides/Highwall	Superintendent was operative locomotive along mine track when he struck a 4 inch I beam hanging from the mine roof in a close clearance area.	Proper installation of crossbars and change of the roof control plan, pre-shift workplace safety examinations.
17/02/2006 United States Coal Underground	Unintended Operation of Equipment	Bolting machine operator fatally injured when crushed between his locomotive and a longwall shield sitting idle on rail car which was hanging off the side of the rail car.	Longwall shields must be transported safely and trip lights on all loads which do not use tailmotors, hazard training.
16/06/2004 United States Coal Underground	Other	Victim was washing loose raw coal material off bunker car when he became crushed between bunker car and steel beam.	Removal of the upright channel, installation of visual and auditory sound when cars are going to move and also egress cords to stop movement.
20/11/2001 United States Coal Underground	Other	While conducting track maintenance and installing new rail, a miner was fatally injured when a rail car struck him. A co-worker was attempting to move a locomotive when the brake was released and it drifted backwards hitting miner conducting maintenance.	Equipment operators to be certain all persons are clear before moving equipment. Operator of self-propelled equipment to give a warning where movement of equipment may endanger persons.
8/11/2001 United States Coal Underground	Unintended Operation of Equipment	A general inside labourer was fatally injured when 3 rail mounted supply cars ran away after becoming uncoupled from brake car.A safety chain on brake car also failed.3 loaded supply cars travelled into mine through derail device, striking victim at bottom.	Regularly check couplers for wear to not exceed tolerances specified by manufacturer. Use safety chains rated for applicable load. Check derail devices to assure effectiveness. Install alarms to notify persons supplies are being lowered into mine.
6/11/2000 United States Non-Coal Underground	Other	A 36-year-old miner with 18 years mining experience was fatally injured at an underground gold mine. The victim was operating a 1 1/2 ton battery locomotive when his head struck a wooden ore chute that protruded out into the drift.	Conspicuous markings should be installed where restricted clearance presents a hazard to persons.
21/09/2000 United States Coal Underground	Unintended Operation of Equipment	A mechanic received fatal injuries when he was crushed between a coal car and corner of a rotary dump. Victim was attempting to troubleshoot an alignment problem on a rotary dump. On separating a rail car, another car drifted back and crushed victim.	Equipment operators to be aware of location of all individuals involved in task prior to moving equipment. Equipment to be isolated sufficiently prior to commencing work. In cases where equipment is to be running, safe work procedures are to be used.

13/03/2000 United States Non-Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A 48-year-old motorman with 24 years mining experience was fatally injured at an underground platinum mine. The victim was walking in front of a string of empty cars that were being pushed into position for loading when he was struck by the lead car.	A clearance to be maintained on side of equipment when moving along haul roads. Haul roads be kept free of debris. Communications to be maintained between equipment operators. Trains not to be moved until there is verification that all persons are in clear.
23/12/1998 United States Non-Coal Underground	Unintended Operation of Equipment	A utility man was fatally injured when crushed between a loader and a loaded rail car. The rail car he was towing continued to roll after the loader had stopped. Victim was crushed when slack in cable was taken up, jerking loader bucket against rail car.	Mobile equipment operators should maintain control of the equipment while it is in motion. A rigid coupling designed for rail equipment to be used to tow rail cars. Personnel assigned to work with rail cars should be trained in safe work procedures.
8/11/1998 Canada Non-Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	The worker was working at a waste dump at the controls of a pneumatic car-dumper while his partner was backing up a haulage train to the dump position. The victim was caught and squeezed between side of haulage car and cylinders of the pneumatic dumper.	
15/01/1998 United States Coal Underground	Unintended Operation of Equipment	A loaded supply car being pulled to mine surface uncoupled from a tram motor. A safety rope between car and motor also failed. Supply car travelled down incline colliding with a man car inflicting fatal injuries to a section mechanic.	A preoperational inspection to be conducted of track haul equipment, including couplings and safety chains. When defects affecting safety are found, defects to be corrected before operation. Equipment operators should ensure tracks are clear before proceeding.
27/10/1996 United States Coal Underground	Unintended Operation of Equipment	A supply motorman was fatally injured operating a locomotive. Victim was transporting longwall shields out of mine to surface. One of shields protruded past carrier it was on. Motorman stopped loco on surface and loco crashed into end of trip and victim.	
26/10/1996 United States Coal Underground	Uncontrolled Release of Energy	A labourer was fatally injured operating a 20T locomotive. Victim was moving a 4T longwall equipment sled on supply cars connected to loco. Sled was attached to cars with chain which during transportation broke, allowing sled to move and hit operator.	
17/06/1995 United States Coal Underground	Unintended Operation of Equipment	Unloading coal cars through a rotary dump system; a dump operator was fatally injured when a car became uncoupled. Using car haul, operator pulled remaining cars up a slight grade so he could realign coupler. Loaded cars ran down and crushed operator.	Stopblocks be provided on loaded sides of rotary dumps to protect persons from runaway equipment. Regular maintenance of equipment should take place to ensure safe operation. Hazard risk management should be implemented and safe work procedures developed.

1989 Australia New South Wales Coal Underground	Unintended operation of Equipment	A locomotive was pushing two stone dusting trolleys into the mine without coupling them and they ran away then they hit the down grade and struck a personnel carrier on the tracks going into the mine.	
10/12/1988 Australia New South Wales Coal Underground	Other	A locomotive was not attached to 2 carriages of stonedust it was pushing into the mine when it hit the slope and accelerated away. It struck a personnel car some 800m down track, killing the deputy who was driving at the time.	
1987 Australia New South Wales Coal Underground	Unintended operation of Equipment	Deputy jumped from his personal car when he realised a collision with a locomotive was imminent and was trapped between his car and the coal rib.	
22/10/1986 Australia New South Wales Coal Underground	Other	Deputy was driving his personal car when he collided with a locomotive at a turn	
28/01/1986 Australia New South Wales Coal Underground	Other	While riding in the drivers' cabin of locomotive, it struck bin flap gates which had not been raised following previous load and killed passenger.	
1986 Australia New South Wales Coal Underground	Unintended operation of Equipment	Runaway locomotive fatally injured a workman down track.	
1986 Australia New South Wales Coal Underground	Other	A locomotive ran into an open bin door which fatally injured the loco driver.	
7/12/1985 Australia New South Wales Coal Underground	Other	A locomotive was driven down a slope with another hauling a man transport behind. A swilly on the track caused both locomotives and man transport to de-rail and the driver of the first locomotive was thrown from his transporter and died.	
3/03/1985 Australia New South Wales Coal Underground	Other	Victim was standing on train trolley next to LHD when the LHD engaged a steel roof support triggering a roof fall while loading the train which crushed the machine man.	
17/01/1985 Australia New South Wales Coal Underground	Fall of Roof/Sides/Highwall	Locomotive driver did not put in place shoes which slow the train down a slight gradient prior to motion and the train moved out of control down the slope. He was killed when he jumped out of the carriage 600m down the slope.	

23/10/1984 Australia Western Australia Non-Coal Underground	Other	Was riding in a Speno Rail Grinder when it came upon a stationary ore train. Three of the four jumped clear and one struck his head upon landing.	
7/02/1984 Australia New South Wales Coal Underground	Other	Driver was leaving mine in locomotive when it struck a steel cross support which fell and took out the driver.	
1983 United Kingdom Coal Underground	Other	Was repairing an incline work road when he was struck by a runaway. It is apparent that he should have erected runaway protection before the commencement of the maintenance.	
17/12/1981 Australia Western Australia Non-Coal Underground	Fall from Heights	Fell 474m down the service compartment of the shaft with a battery loco.	
2/12/1981 Australia Queensland Non-Coal Underground	Other	Fatally injured when the loaded ore train he was driving crushed into a stationary work platform.	
13/04/1981 Australia New South Wales Coal Underground	Catastrophic Failure	Driver was killed when a new locomotive's brakes failed after being put into service without proper service facilities.	
1981 United Kingdom Coal Underground	Other	Fatally injured when he was engaged in re-railing a derailed supplies vehicle loaded with 4.4 tonnes of material at the junction of a Conveyor road dipping at 1 in 5 and a cross cut. While performing this, the vehicle slipped and he was crushed against the Conveyor structure.	
30/11/1979 Australia New South Wales Coal Underground	Catastrophic Failure	Workman was fatally injured when hit by metal skip which ran away downgrade after a coupling and safety chain had failed.	
10/10/1979 Australia New South Wales Coal Underground	Other	Workmen were run down during roof bolting operations on a transport roadway when they were struck by a loaded locomotive.	Barriers and warning signs and lights used when bolting in an enclosed and poorly lit area.
21/11/1978 United Kingdom Coal Underground	Other	Manriding Train Derailment	
11/05/1977 New Zealand Unknown Underground	Other	Killed when he stepped back into the path of a locomotive	

1977 Australia New South Wales Coal Underground	Unintended operation of Equipment	Collision between a battery locomotive and stationary diesel tractor parked on roadway	
1977 Australia New South Wales Coal Underground	Other	Was run over by a descending alligator skip in a drift drivage	
1977 United Kingdom Coal Underground	Other	Three large powered supports mounted on bogie wheels ran away down a drift, after demolishing three Warwick girders struck and killed a workman.	
1976 United Kingdom Coal Underground	Catastrophic Failure	Was killed when the connecting rope between the two elements of a double acting Warwick broke, allowing one of the girders to fall on him.	
1976 United Kingdom Coal Underground	Other	Was killed while he was operating a Warwick girder on a captive rail installation and a heavy and awkward load overturned and crushed him against the side.	
1976 United Kingdom Coal Underground	Other	Guard failed to see a dislodged prop in time, which was protruding onto the track, due to having no light on the train except for a headlamp. All 3 men jumped from the train and one received fatal head injuries.	Do not operate trains without proper illumination
1975 Australia New South Wales Coal Underground	Other	Passenger was thrown from battery locomotive when it derailed at set of defective points. Would not have been thrown off if there was not extra passenger travelling.	
1975 Australia New South Wales Coal Underground	Unintended operation of Equipment	Killed when he was thrown off upon derailment after a turn and it careered down an inclined roadway. Tracks had been saturated by water to clean Conveyor belts in roadway.	
16/06/1972 Australia New South Wales Coal Underground	Unknown	Was found dead inside an empty mine truck when a race of empty trucks arrived at the top of an incline operated by a winch	
1972 New Zealand Coal Underground	Other	After jumping from a battery locomotive a miner was killed driving into the mine. There were no faults, problems or overloads with the machine.	
1971 Australia New South Wales Coal Underground	Unintended operation of Equipment	He derailed a battery locomotive on a turn with excessive speed the only cause.	
20/04/1970 United States Coal Underground	Gas Ignition Explosion	Methane explosion ignited by a trolley or motor	

1970 Australia New South Wales Coal Underground	Other	Killed by a runaway man transport car. Transport was being shunted in order to position a locomotive outby of the car when it ran away and slammed into the visitor group.	
1970 Australia New South Wales Coal Underground	Unintended operation of Equipment	Jumped from a battery locomotive hauling three skips of stone which got out of control	
1970 Australia New South Wales Coal Underground	Other	A runaway locomotive and trollier were involved in a derailment due to load weight, inability to place shoes and driver inexperience	
1969 Australia New South Wales Coal Underground	Other	Fell and was trapped beneath an electric battery locomotive on which he had been riding. He was riding in an uncomfortable part on the front when he was dislodged by a bump. It was not designed to carry that many people.	
1968 Australia New South Wales Coal Underground	Unintended operation of Equipment	Locomotive and two mine cars were derailed after running backwards out of control on the transport road. The deceased was illegally riding on the carriage without driver knowledge. Maximum loads have been reduced to prevent future re-occurrence.	
1967 New Zealand Coal Underground	Other	Was fatally injured at the foot of a jig when he was hit by a runaway box of coal	
1965 Australia New South Wales Coal Underground	Unintended operation of Equipment	Was run over by a battery operated prime mover which went out of control when a control lever was jammed in the 'on' position. This then careered through a crib room and struck a worker.	
1965 Australia New South Wales Coal Underground	Other	Acting as a shunter and fell from the rear of a moving locomotive beneath a trolley loaded with rails which were being hauled by the locomotive.	
29/04/1963 Australia New South Wales Coal Underground	Unintended operation of Equipment	Acting as a locomotive driver, the locomotive got out of control and derailed, knocking out a lot of baulks and crushed the operator against one	
8/05/1962 Australia New South Wales Coal Underground	Other	Riding on locomotive when a door opened on a turn and caught a rail, causing loco to lurch	
10/03/1962 Australia New South Wales Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	Trolley, on which a pump was mounted became derailed while being transferred from one part of the mine to another when it struck a deputy who was assisting in the work.	

1962 Australia Queensland Coal Underground	Other	Fatally injured when he tripped and fell against a diesel locomotive, striking his head against the metal structure of the cabin.	
1962 Australia New South Wales Coal Underground	Unintended operation of Equipment	Driver of battery locomotive was working alone on night shift on underground roadway was run over by his locomotive	
1962 Australia New South Wales Coal Underground	Other	3 men were in man transport being driven along underground roadway when rear locomotive became unhooked on a curve and ran down a grade and crashed.	
1961 Australia New South Wales Coal Underground	Other	On incline stone drift, man was killed while unloading the steel channel sections from an alligator car near the face of the drift, 700m below the surface. The alligator car passed over him.	
24/10/1960 Australia Queensland Coal Underground	Explosives	Fatally injured when explosives lying on the track were run over and exploded by the locomotive he was driving.	
28/06/1960 Australia New South Wales Coal Underground	Other	4 empty mine cars became uncoupled and ran down a gradient colliding with a battery locomotive and killing the driver	
1960 Australia New South Wales Coal Underground	Unintended operation of Equipment	2 uncertified drivers attempted to take 3 battery locomotives, coupled together, down an undulating roadway. It derailed at a safety point and one of the drivers was killed.	
21/08/1959 Australia New South Wales Coal Underground	Other	Shunter was crushed between the side of a mincar and a close roadside prop	
15/07/1959 Australia New South Wales Coal Underground	Other	9 loaded mine cars became uncoupled from a diesel locomotive and ran back down the grade, killing the operator of an electric locomotive behind.	
8/07/1959 Australia New South Wales Coal Underground	Other	Was crushed between the locomotive he was driving and the first car, when the set was struck by two runaway loaded 10 ton rail cars	
3/07/1959 Australia New South Wales Coal Underground	Other	Shunter was struck by a derailed mine car, following a collision between full and empty cars attached to a locomotive travelling in the opposite direction.	

23/03/1959 United States Coal Underground	Gas Ignition Explosion	Explosion originated when an explosive mix of methane and air was ignited by an electric arc or spark from the trolley wheel of the locomotive.	
20/11/1958 Australia New South Wales Coal Underground	Electrocution	Electrocuted while fitting a cover to the control box of a coal loading machine	
21/04/1958 New Zealand Coal Underground	Unintended operation of Equipment	Was bringing a full race of coal from Dip top when the truck became derailed on a curve, tipped up one end and pinned him under the front eng.	
21/02/1958 Australia New South Wales Non-Coal Underground	Unintended operation of Equipment	Killed by being struck by a loaded rake of trucks which ran out of control.	
20/02/1958 Australia New South Wales Coal Underground	Other	Shunter was knocked down and run over by a trolley wire locomotive during shunting operations.	
15/08/1957 Australia New South Wales Coal Underground	Other	Locomotive driver was thrown from his seat when a collision occurred.	
27/05/1957 Australia Queensland Coal Underground	Unintended Operation of Equipment	Fatally injured from fractures of the pelvis and severe damage to his legs when he was crushed from a runaway cuddy balance wagon.	
24/09/1956 Australia New South Wales Non-Coal Underground	Other	Killed when struck by electric locomotive when trying to replace derailed box truck.	
5/07/1956 Australia Queensland Non-Coal Underground	Other	Fatally injured whilst driving a train when the train ahead of him began to reverse and as a result crushed him between the electric mule and an air shovel.	
1956 Australia New South Wales Coal Underground	Unintended Operation of Equipment	Being struck by a runaway train.	
1956 Australia New South Wales Coal Underground	Unintended operation of Equipment	Being struck by a runaway train	
1956 Australia New South Wales Coal Underground	Other	Crushed between roof supports and a locomotive.	

22/06/1955 Australia Queensland Non-Coal Underground	Other	Fatally injured when he was crushed between the mancha mule and the leading stationary truck.	
31/01/1955 Australia Queensland Non-Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	Fatally injured whilst shunting a car load of timber on No.7 level when a piece of timber projecting from the side of the car came into contact with the ventilation door frame, crushing against the frame of the mule.	
1955 Australia New South Wales Coal Underground	Unintended operation of Equipment	Taken out by a run away locomotive.	
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1955 Australia New South Wales Coal Underground	Other	Crushed between rolling stock and side timbers.	
1955 Australia New South Wales Coal Underground	Other	Fell off a moving locomotive.	
1955 Australia New South Wales Coal Underground	Unintended operation of Equipment	Collision of rolling stock on a diamond crossing.	
1955 Australia New South Wales Coal Underground	Other	Deceased lost control of a locomotive he was driving and he impacted the coal side.	
4/06/1951 Australia Queensland Non-Coal Underground	Other	Fatally injured when he fell from the locomotive whilst it was in motion.	
20/09/1948 Australia Queensland Coal Underground	Other	Fatally injured when he was stuck by a runaway empty rake.	

21/07/1947 Australia Queensland Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	Fatally injured when he was trying to control his horse when he either fell or was knocked down and was subsequently run over by the skips.	
29/07/1946 Australia Queensland Coal Underground	Unintended Operation of Equipment	Two men were fatally injured from a runaway skip.	
29/06/1942 Australia Queensland Coal Underground	Other	Fatally injured when he was struck by a runaway full skips in No. 2 tunnel haulage road.	
27/05/1942 Australia Queensland Coal Underground	Other	Fatally injured from internal injuries he received when he was struck by a runaway skip when going home from work up No. 2 haulage road.	
10/08/1938 Australia Queensland Coal Underground	Fall From Heights	Fatally injured when he slipped and fell in front of a loaded skip, receiving injuries to his head, chest and arms.	
2/06/1938 United Kingdom Coal Underground	Other	Tub Train Accident.	