

# Notifiable and High Potential Incidents

## NSW Metalliferous, Extractives and Other Non-Coal - 2012

Please review and consider for relevance at your worksite.

### Metalliferous, Extractives & Other Non-Coal

#### Electrical Energy (43)

##### MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure (1)

- An operator was moving an energised pump cable when it developed a short circuit near his hand and emitted sparks from the cable. The operator was not injured. Investigations revealed that the cable was not fit for purpose. Actions taken to eliminate all such cables from the mine. OEM informed. [317610923001]

##### MHSR 2007 CI 145(c)(ii) imminent risk of explosion or fire (1)

- Arc flash in hydrator panel when equipment started by operator [317613659001]

##### MHSR 2007 CI 145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work (9)

- Employee received an electric shock from the toggle switch on an oxy-acetylene cutter. Internal short in the switch from live conductor to switch toggle. [317605214001]
- Mechanic received electric shock from parts washer. Investigation found exposed wires in the liquid storage area of the washer. [317605546001]
- Fitter sustained a compound fracture to his thumb and temporary hearing loss when a jump start battery pack exploded due to the incorrect voltage being selected on the jump start battery pack. [317609649001]
- Operator tried using a hand drill which was not working. Operator wriggled lead then received electric shock in left hand and arm. Equipment in good order apart from a loose connection in the drill which possibly resulted in inductive arcing (overvoltage) and potential insulation failure at drill trigger. [317609970001]
- An apprentice received a suspected electric shock while operating a 240v drop saw. No clear conduction path has been found despite extensive tests. [317611807001]
- Operator received an electric shock (tingle) when they contacted the metal surface of a device powered by a switched mode power supply whose supply plug did not include an earth pin. This issue is a known issue and is resolved by using switched mode power supplies with an earth connection for the EMI filter. The magnitude of the earth fault current was measured as 0.4 mA as is typical for this situation. [317611837001]
- Arc flash incident occurred whilst electrician was fault finding in motor control panel. [317611757001]
- Apprentice received electric shock after replacing faulty emergency lighting. [317613557001]
- Fitter received electric shock from hand held electric jack hammer during crusher maintenance. [317615084001]

##### MHSR 2007 CI 145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person (3)

- Truck contacted high voltage electrical cable in underground mine roadway. Cable not securely fixed to roof and hanging into the upper part of the rib. Build up of material on floor and rib reduced drive clearances. [317606805001]
- Whilst clearing scrub with a large dozer a sapling brushed 11KV lines causing them to arc. [317608919001]
- Catastrophic failure of suspended 11kV feeder cable in shaft. Cable broke in two and fell down shaft. Under investigation. Evidence of severe corrosion on armouring in vicinity of cable separation. Failure of tail rope in shaft several days prior may have initiated cable failure. [317610730001]

##### MHSR 2007 CI 145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage (24)

- Electric shock received by fitter when retractable 240V extension lead was pulled and plug came off, causing contact between live conductors and his hand. [317604035001]
- Electric shock received by 2 persons from suspended load on overhead crane whilst carrying out maintenance work. Travel cable pulled partially out of supply Jbox disconnecting earth to crane and one phase. These cores have then contacted together livening the suspended crane frame, body, chain and load. [317604922001]
- Operator received electric shock when using core saw. Inspection identified faulty earth wire on water transfer pump. [317605078001]
- Electric shock whilst using grinder with damaged lead and wearing wet gloves. [317605891001]
- Electric shock occurred during welding task. Operator was wearing damp/wet gloves while holding onto top walkway and guard being welded [317606321001]
- Operator received electric shock while attempting to replace a broken 240 volt light globe over the jaw crusher. Circuit was not isolated prior to changing the globe and the operator touched the exposed, energized filament of the globe. [317607670001]
- Fitter received electric shock while working with portable 240V hydraulic power pack unit. Broken earth wire on extension lead caused metal frame of power pack unit to become live due to EMC filtering circuit. [317607399001]
- Suspected electric shock when unplugged jumbo trailing cable from backtoback before turning power off. [317607121001]
- Employee turned off electrical switch fitted to pressure washer and felt tingle in left hand and arm. Washer was exposed to heavy rain while in use. Electrical equipment of washer was substandard from the factory. [317607287001]
- Operator received an electric shock when he handled a damaged, wet cord socket. Poor maintenance/handling of electric leads was evident. The electrical protection was later tested and found to be functioning. [317608935001]
- Electric shock to left hand from 1000v circuit from incorrect isolation of electrical circuit. [317609458001]

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**Electrical Energy (43)**

**MHSR 2007 CI 145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage (24)**

- Fitter received electric shock to stomach area when using a pendant controller to operate an overhead crane in the surface concentrator. The area had been recently hosed down and it appears water got into the pendant controller. The control unit operates on 110 volts. [317609487001]
- Electric shock received from work light - cracked/damaged insulation on lead [317610355001]
- Electric shock received by tradesman assisting boilermaker welding new hinges when contacted with electrode as boilermaker swung away from job. [317610744001]
- Operator picked up wet extension lead socket which was powered but not connected to a tool. He received an electric shock. The IP rating of a cord socket is meaningless if it is not plugged into a suitably IP rated socket and sealed accordingly. [317612353001]
- Suspected electric shock, operator in contact with loader when supply was reset. Faulty protection relay allowed reclosing power against a fault. The high impedance earthing integrity was checked and found operational. Operators were prepared to reclose against an earth fault. Steps were taken to correct this inappropriate action by securing the EL reset facilities at the mine against unauthorised operation. [317612955001]
- Operator attempting to restart a pump reported receiving an electric shock when he attempted to reset the pump isolator. [317613699001]
- 3 persons received electric shock while working on laptop computer in a damp environment. The high impedance voltage source was via the EMI filter in the laptop supply. The power pack was supplied from a two pin, 240 V plug socket. This is a known issue and can be resolved by using three pin (earthed referenced) power packs for PCs etc. The mine is phasing out all such supplies, starting with damp area applications. Note: Not all 2 pin non-linear supplies suffer from this issue. [317614850001]
- An operator pushed a motor start button, and received a minor tingle but when he repeated the operation with a different finger decided that the first sensation was not that of an electric shock. A second operator later operated the same button and reported receiving an electric shock. The site was then preserved. Later investigations revealed the failed IP rating on the button had allowed such a small current to flow it was virtually below the level of normal human perception (< 0.5 mA). Poor maintenance in this high security area led to this problem. Immediate maintenance has been carried out with further scheduled. The plastic box is being replaced with an earthed metal enclosure and metal shrouded push buttons to prevent a re-occurrence. [317615458001]
- A contract construction worker received an electrical shock from a wet 240V hammer drill shortly after light rain at the work area. The victim was taken to hospital for ECG that proved satisfactory. [317616297001]
- Worker received electric shock to right arm when removing laptop power supply from an unswitched power board. Shock was found to have come from residual charge from the laptop power supply, not from the power board. [317617060001]

- Operator received an electric shock from a reverse cycle split system air conditioner. Water had built up inside the air conditioning unit. The air conditioner being used wasn't suitably rated for use in a wet area. The unit was replaced by an externally located air conditioner suitable for the application. Procedures concerning the introduction of plant into the mine were reviewed and adjusted to prevent non FFP equipment being used on site. [317617068001]
- A contract diesel mechanic received an electric shock from a wet stop/start station of a 415V pressure cleaner whilst working at maintenance bay. The victim was taken to hospital by ambulance. ECG proved normal and returned home when released. All similar pressure cleaners removed from service until examined. [317616513001]
- A contract labourer received a suspect electric shock from a 415 volt vulcanizer while belt splicing a conveyor belt on the surface of an underground mine. The victim was escorted to hospital and later released when the ECG proved normal. The operator is investigating the electrical integrity of the equipment, introduction of plant to site procedures and maintenance activities for this type of plant. [317616636001]

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (3)**

- Fire inside blower unit housing due to motor failure. [317606912001]
- A series of 33 kV faults resulted from an initiating fault on the mine's 33 kV system. Power was lost to the majority of the site, on the surface and underground. The principle issue of concern was the failure of an underground 33 kV cable splice which resulted in a fire which burnt in excess of two hours in that join. The fire did not spread beyond that join. [317610829001]
- Service crew operator suffered muscular pain when a triple fan starter contactor flashed over causing the panel door to burst open and striking the operator on the arm. The fan starter operates by 'jogging' the first fan's contactor to progressively fill the ventilating bag. This crude electrical starting technique has resulted in the contactor flash over as it was operating outside it's rated parameters and possibly subjected to back EMF from the 110 kW motor under start. The control panel is not arc fault rated and not fit for this purpose. A full review has been commenced. [317615344001]

**High Potential (2)**

- Fitter reported electric shock while working on a truck in underground workshop. No evidence or source of electrical energy found. Possibly a muscle spasm triggered by elbow contacting steel edge. [317605307001]
- Electric shock reported from isolated cable. No source of electrical energy identified in either the cable or structure in the area. Possible muscle spasm/pinch nerve in act of forcing cable straight or electrical abnormality occurred inducing voltage onto cable. [317607720001]

**Explosives (14)**

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (1)**

- Underground loader operator was bogging out a fired end at a decline face when the loader bucket apparently hit and set off some misfired explosive from the previous firing. Flyrock struck the loader operators cabin, penetrating the cabin window and either rock or window glass struck the operator above the left eye which required stitches. [317606710001]

( ) The number in brackets next to each category is the total number of incidents reported for that category.

**Metalliferous, Extractives & Other Non-Coal**

**Explosives (14)**

**MHSR 2007 CI 145(l) ejection of fly rock so that it falls outside blast exclusion zone (1)**

- A flyrock incident caused damage to a rural machinery shed. [317613190001]

**MHSR 2007 CI 146(1)(e) significant misfire of explosives (3)**

- A significant number of blast holes misfired during a blast - issue with how shot was tied in, surface tie in for the hole was missed in the pre blast check [317605651001]
- Misfire of explosives. Shotfirer gave all clear, came out to mark out next shot and found three undetonated blast holes. [317609043001]
- Misfire caused by insufficient slack in wiring [317614709001]

**MHSR 2007 CI 146(1)(f) problem or fault in explosive product or accessory (3)**

- Misfire due to wet holes from inclement weather. [317604997001]
- Un-fired pre-split explosive product. Suspected faulty product. [317610364001]
- Undetonated pre-split product found on ramp during post-blast clearance [317616464001]

**Explosives Regulation 2005 : 39 Loss or theft of explosives or explosive precursors (1)**

- Explosives stolen from underground magazine [317606233001]

**Explosives Regulation 2005 : 75(1)(c) incident involving explosives and involving risk of an uncontrolled explosion or fire or of any such death, injury or damage (2)**

- Blasting operations conducted while two persons in blast district - they were located well away from blast area [317612663001]
- A booster and detonator was found in the muck-pile of a recent blast by an excavator operator whilst mining the material. There were no visible signs of a misfire in the muck pile and it is thought the explosive product was from the sub-drill of an old blast on the bench above. The area was isolated and the blasting contractor was called to remove the explosives from the muck-pile. [317613631001]

**High Potential (3)**

- During an explosives training course at a quarry an unexpected amount of wood from blasting a tree stump breached the designated exclusion zone. No injuries occurred as the participants were shielded during the blast. [317606217001]
- Significant blast vibrations were felt in surrounding areas following an underground stope blast. [31761113001]
- A misfire may have occurred when two holes slumped on a sleeping shot. [317613178001]

**Gas (4)**

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (3)**

- Uncontrolled fire from gas intersected in drill hole. [317603999001]

- Gas intersected in drill hole ignited when jumbo steel was retracted. [317604163001]
- Ignition of gas intersected with development firing. [317614099001]

**MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids (1)**

- Diamond drillers exposed to blast fumes when fumes entered working level via a previously drilled diamond drill hole. Drillers had a gas monitor that alarmed and drillers left area. [317606293001]

**Mech Equip Fixed (16)**

**MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure (3)**

- A winch cable failed whilst removing an overhead protection balloon which had been installed in an ore feed bin in the underground material handling system. There were no injuries. It appears that corrosion on individual strands at the point of failure contributed significantly to the incident. [317608965001]
- An employee was removing a rock lodged between a conveyor belt and head drum. The employee used a sledge hammer to hit the rock, the rock exploded when hit with the sledge hammer causing a piece of rock to strike the employee's eye. [317615829001]
- The shaft of a bend pulley on a take-up arrangement in a conveyor circuit failed allowing the 750kg pulley to fall some 25m to the tower bottom. There were no injuries to any personnel. [317617086001]

**MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery (1)**

- Whilst checking the tension of V-belts for the head conveyor drum, a tradesperson had his finger pinched between the belt and the pulley when the conveyor belt moved unintentionally, causing his thumb nail to be pulled out. It appears other employees were clearing a blockage from the conveyor tail drum which caused a sudden release of tension when cleared and movement of the conveyor belt. [317607814001]

**MHSR 2007 CI 145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage (1)**

- Electric shock received by boilermaker when attempting to remove 12 volt battery pack (for cordless drill) from 240V battery charger. Initial investigation suggests that high humidity and damp hands may have contributed to the incident. [317604491001]

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (5)**

- Bearing overheated on jaw crusher motor causing smoke then flames [317610851001]
- Smouldering of the sheath of redundant electrical cables caused by contact with falling embers and sparks from oxy-cutting in the shaft above. Extinguished with hand held extinguishers. [317612613001]
- A fire started when drive belts powering a small cone crusher began slipping on the pulleys, overheated and ignited plastic cowling used as a guard to protect the belts from overhead falling pebbles. The fire was extinguished using hand held fire extinguishers. The emergency response team was called to provide fire watch to ensure no further flare up. There were no injuries. [317613486001]

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**Mech Equip Fixed (16)**

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (5)**

- A fire ignited on the internal rubber lining of a cyclone feed hopper after a welded repair was effected. Emergency response called and there were no injuries. [317614620001]
- A bearing in a mill gearbox failed unexpectedly on the high speed input shaft causing excessive temperatures and allowing the oil to leak out and ignite. The fire was extinguished using handheld extinguishers. There were no injuries. [317616174001]

**MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids (1)**

- Failure of crowd ram hydraulic hose on a loader resulting in oil sprayed over loader and cabin. The hydraulic hose on the crowd cylinder failed at the swaging allowing hydraulic oil to escape. This occurred during normal operations. The loader was inspected on a daily basis. A 500 hr service was carried out one month earlier where a visual inspection of hoses was conducted and found no defects. [317607115001]

**MHSR 2007 CI 145(m) failure of any part of powered winding system or damage to shaft or shaft equipment (4)**

- Shaft tail rope failure, approximately 25 metres below the main cage, caused by the effects of spillage which created a weak point in the rope. All persons on board the cage were recovered safely. [317610362001]
- Two operators were inspecting shaft skip head ropes from maintenance platforms installed across the shaft at the surface plat. The winder driver drove one skip up through a platform at creep speed lifting the platform and associated floor plates well clear of the floor. Risk controls were all procedural and were not adequate for the task. Limit switches or equivalent devices were not fitted. The operators were not on the platform and there were no injuries. [317610814001]
- A 'scroll roller' attached to the skip on a production winder sheared completely off and fell back down the ore hoisting shaft damaging the fixed guide on the adjacent skip and proximity switches installed in the shaft. [317613894001]
- Kibble winder tripped on a variable speed drive (VSD) fault as driving down to stage. Winder came to a controlled stop. Personnel on stage evacuated from shaft using stage winder. [317616559001]

**Other Notifiable (1)**

- Operator injured finger whilst changing a short rubber conveyor belt. Two workers were sliding conveyor and injured person was guiding the belt. Incorrect manual handling and lifting techniques and wearing of protective gloves. [317613561001]

**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure (6)**

- Whilst tipping a load of material, an on-highway tipper's tub failed catastrophically from the hinge pins and came off landing against the front right hand side wheel guard of the cabin of an adjacent tipper. The driver of the adjacent tipper was not in the cabin at the time of the incident. Weld fractured at back tail gate. [317606836001]
- An operator of a dump truck did not lower the tray after tipping at a grizzly. As the truck drove away it came into contact with overhead pipework, causing the steel pipes to break and fall to the ground. It appears the operator was distracted in the cabin and did not consider the locality of pipework overhead. No injuries occurred. [317609282001]
- Light vehicle hire vehicle reversed approximately 2 metres from parked position and driver heard noise from front end. Driver parked vehicle and investigated and discovered failed tie rod end. Light vehicle isolated pending investigation by competent person. All light vehicle hire vehicles removed from mine by end of shift. Mine equipment standard under review, will address MDG15, will include contractors plant. [317613647001]
- While shotcreting, the boom mounting swivel broke in half causing the boom to fall within one metre of the operator. The apparent cause was metal fatigue. [317613713001]
- After tipping a load, the operator of a haul truck continued to drive away with the tray up. The tray came in contact with a platform on a pugmill, causing minor damage to the structure. The haul truck was not fitted with a "tray up" warning system. [317616321001]
- A front end loader was clearing material in preparation for maintenance of a reclaim tunnel structure when it damaged the structure. Large loader was not fit for purpose equipment, and no spotter was used during this procedure at night. [317616730001]

**MHSR 2007 CI 145(c)(ii) imminent risk of explosion or fire (4)**

- Hydraulics fitting on the brake accumulator line on an explosives 'charge-up' machine failed causing hydraulic oil to spray onto the machine's hot exhaust system and consequently starting a fire. Whilst the machine was fitted with fire suppression, the operator extinguished the fire with a hand held fire extinguisher and an emergency response was initiated. There were no injuries to any personnel. [317604105001]
- Small fire on a near new diesel generator being used underground. OEM wiring had been modified to add an isolation switch and an E-stop switch [317604118001]
- An underground haul truck suffered a small fire in the engine bay which was extinguished by the operator with a hand held fire extinguisher. There were no injuries to any personnel. [317606760001]
- Fire in engine compartment of underground haul truck. Site emergency response team activated. Initial investigation indicated residue of cleaning rag left in engine compartment post servicing on previous shift. [317606815001]

**MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery (12)**

- Whilst winching a belt into position for the first time on a new underground conveyor installation, the rope catastrophically failed allowing the belt to run back some 200 meters before coming to a stop. The conveyor was roof mounted on a 1 in 6 incline and damaged some rollers and the frames on which they were mounted during the rollback. No injuries. [317604685001]



**Metalliferous, Extractives & Other Non-Coal**

**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery (12)**

- Steering became erratic and uncontrollable when driving ute down ramp after completing tailings dam checks. An adjustable drag link steering end had dislodged from the joint. All drag link ends replaced with a sealed unit. [317607172001]
- Vehicle rolled from parked position into wall when 1st gear and park brake did not hold. [317605187001]
- Unplanned movement of crane caused by sticking accelerator pedal. [317605416001]
- Light vehicle rolled back 30m and ran into the wall. It was left parked in 5th gear, wheels partly turned and hand brake applied. The parking procedure was not followed. [317608310001]
- Unattended vehicle with handbrake not applied rolled forward at mine main entry gate. [317609254001]
- An underground mine worker was attempting to attach a calibration weight to a loading flask located at the bottom of the haulage shaft. He and a mate were working in a loader bucket attempting to attach overhead suspension chains to the calibration basket which was also in the loader bucket. It appears that the calibration basket has prematurely slipped out of the loader bucket and fell into the adjacent haulage shaft. This unexpected movement has caused the worker to fall some 14 metres down the shaft. [317609180001]
- Single boom jumbo lost balance while stationary. Footings were on soft ground and slipped. When boom was at full extension to the side, the footings slipped and jumbo over balanced. [317610346001]
- The operator of an articulated haul truck suffered soft tissue injuries after getting out of the truck which was left running at the top of the ramp to monitor the spillage from unloading the truck into the main hopper. As they returned to the vehicle, the truck suddenly began to roll forward and in an attempt to get out of the way the operator slipped on the loose embankment and their legs were trapped beneath the rear wheels. [317612141001]
- Unplanned movement of light vehicle when vehicle was left in neutral with the hand brake half applied. [317613788001]
- The operator of a telehandler inadvertently neutralised the machine whilst tramping it along the decline. He attempted to apply the primary braking system but it did not stop it and he subsequently turned it into wall to stop it. The machine suffered moderate damage. [317613948001]
- A water cart moved approximately 1 metre from a parked position with no operator in the cabin and came to rest against a mobile screen. While a mobile screen was being washed for maintenance, the water cart operator exited the cabin to check the water level in the tank via a ladder next to the operator's cabin. While on the tank the operator noticed the truck was slowly moving and climbed back into the cabin as it came to rest against the mobile screen. The water cart park-break system was tested by the OEM and no mechanical fault was found. [317617051001]

**MHSR 2007 CI 145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person (2)**

- An underground loader hit a 550V cable whilst bogging out an underground stockpile cuddy. The local power supply tripped out - no injuries. Testing of the loader tyres after 4 hours found no indication of temperature rise. [317604517001]
- Scraper truck driving through gate, clipping fence and knocking off supporting frame of energised wire to ground. No one received an electric shock. [317606686001]

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (38)**

- Fire in LHD engine bay caused by crack in diesel tank. [317603995001]
- Fire in LHD engine bay caused by crack in diesel tank from patch repair. [317604001001]
- The operator of an underground loader noticed smoke from the engine bay. Activated on board fire suppression and used hand held extinguisher on flames. Fan to axle/differential oil cooler had ignited. Fan had malfunctioned probably due to age related causes. Mine has replaced oil cooler fans on all equivalent loaders in accordance with current OEM safety alerts/bulletins. [317604435001]
- Minor fire in wiring of starter motor whilst attempting to start unit. Extinguished when AFFF fire suppression was activated. [317604577001]
- Fire under bonnet of light vehicle when circuit board on the dual batter isolator failed and caught fire. Fire was extinguished by the AFFF. [317604715001]
- Fire under operators seat of agitator - fire extinguished by operator using hand held extinguisher. Cause electric arc and debris present. [317604723001]
- Underground haul truck operator observed a flame adjacent to the engine bay of the truck, cause unknown. Fire suppression initiated and fire suppressed. Site emergency response activated. [317604942001]
- Emulsion oversprayed from faulty valve onto work lights on vehicle heated up and caught alight. [317610142001]
- Employee noticed smoke coming from right hand wheel of trailer carrying a woodchipper upon arrival to site. Fire was promptly extinguished using a hand held fire extinguisher. Excessive friction due to loose bearing may have caused the small flame. [317606099001]
- A surface drill rig with just 700 hrs work had just completed a hole when the operator heard a popping sound, turned around and noticed flames around the air filters of the compressor. Although fitted with fire suppression, the operator extinguished the fire using a hand held fire extinguisher. There were no injuries. [317605987001]
- Flames observed in the vicinity of truck's engine bay by operator whilst watering decline. Unit shut down and AFFF system activated extinguishing the flames. Investigation identified a primary oil feed line to the hydraulic water pump had ruptured and oil contacted hot exhaust components. [317607127001]
- Fire on scaling rig due to leak of oil from rubbing hoses landing on the turbo. The fire was extinguished by the onboard AFFF fire suppression system. Two hoses rubbed causing a leaking hydraulic hose on steer pump which sprayed oil onto rigs turbo in a separate compartment. [317607864001]

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**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (38)**

- Fire in the engine compartment of a surface drill rig. A mist of oil sprayed out from a hole in a hydraulic hose onto the lagging, which is part of the exhaust system contained within the engine compartment, and caught fire. A small hole developed in the hydraulic hose caused by constant rubbing on a bolt over time. [317607704001]
- Operator was stockpiling aggregate with front end loader when he noticed smoke and flames coming from the engine bay in the vicinity of the exhaust system. [317607871001]
- Small fire in manifold area of truck from ruptured turbo line. Engine oil sprayed onto hot exhaust manifold. Split return pipe (turbo). [317608798001]
- A shotcrete truck had just trammed from underground to the surface to have repairs done to leaking hydraulic hoses on the spray boom. When the vehicle was parked at the surface tag board the operator noticed smoke, and then flames coming from the engine bay. He operated the AFFF fire suppressant system and extinguished the fire. Apparently hydraulic oil had drained from the leak into the engine bay - onto exhaust manifold lagging. Nil injuries and minor damage to vehicle. [317609531001]
- Fire in the engine bay of loader - Hydraulic hose burst and oil went onto the engine causing flame [317610191001]
- A hydraulic hose failure on a front end loader set off fire suppression system after the fluid contacted a hot surface and ignited. There were no injuries. [317610105001]
- Fire occurred on concrete agitator unit when a hydraulic hose failed. The fire was extinguished using a hand held extinguisher. A hydraulic hose failed in the articulation area spraying oil onto and impregnating the exhaust lagging which then caught fire. [317610447001]
- Underground concrete agitator truck suffered a small fire in exhaust lagging in the engine bay while travelling up a ramp in the underground mine. The onboard AFFF fire suppression quickly suppressed the fire with little damage and no injury. The truck's fast fill fuel tank was incorrectly fitted with a vented manual fill fuel tank cap and it is believed that the tank was overfilled and fuel escaped from the cap and splashed onto the adjacent exhaust lagging initiating the fire. [317610898001]
- Fire on light vehicle spotlights caused by wiring fault. [317611310001]
- An operator refuelling a shotcrete agitator truck in an underground fuel bay spilled diesel fuel from a manual refuelling nozzle onto hot engine components which ignited a small fire on the engine. The operator activated the truck's fire suppression system which quickly extinguished the fire. There were no injuries or significant equipment damage. [317611671001]
- Fire at rear of mobile drill rig, caused by overheating of dc solenoid spool valve. Fire was detected by operator and extinguished with hand held extinguisher. Fault in winding coil lowered solenoid resistance resulting in excess current. [317612056001]
- A contractor's articulated service truck travelling on a surface haul road suffered a fire near the articulation point behind the cabin. The fire was extinguished with a hand held fire extinguisher. The park brake located on the propellor shaft near the articulation point was dragging and had overheated which initiated the fire. The air line to the park brake was kinked which compromised air flow and prevented the brake from properly disengaging. [317612345001]
- A fire started in the exhaust manifold of an underground loader as a result of a failed turbo charger. The fire suppression automatically activated and an additional hand held fire extinguisher was used to extinguish the fire. There were no injuries. [317612629001]
- A fire occurred on a transportable crusher at a quarry at night after the site was locked up. The site was unattended and the cause is under forensic investigation. [317614812001]
- Small electrical fire on a loader associated with cables and starter motor solenoid. Fire was extinguished immediately using fire extinguisher. [317613934001]
- A concrete agitator truck operating in an underground drive suffered a fire in the exhaust lagging. The turbo failed and oil had leaked into the lagging. AFFF failed to extinguish the fire and two extinguishers were used. Maintenance to be revised to include regular inspection of turbo and lagging and change out of lagging where oil is present. [317614074001]
- While air-arch-gouging a loader bucket with a torch, molten metal from loader bucket landed on plastic container and lid caught fire. No injuries occurred. [317614205001]
- The possible failure of a 'wiring loom' associated with the safety sensors has initiated an engine fire on a mobile crusher. The fire was extinguished with a portable fire extinguisher [317614440001]
- Hot gases escaping from a cracked exhaust ignited the engine compartment of an excavator. The fire was extinguished by the operator with a portable fire extinguisher. [317614598001]
- Small fire in the engine bay of a light vehicle from leaking diesel from an injector line onto the exhaust manifold. The fire was extinguished by operators who activated fire suppression. [317614596001]
- Whilst underground, the operator of a grader noticed flames emanating from the engine bay of his machine. The on-board fire suppression was activated automatically and the fire was extinguished. There were no injuries. [317614715001]
- A fuel leak from the injector rail of a grader caused a fire in the engine bay of the machine. It was extinguished by the on-board fire suppression system. No injuries. [317614911001]
- The turbo oil supply line on an underground haul truck failed allowing oil to spray onto a hot surface and igniting. The fire was extinguished and there were no injuries. [317615342001]
- A fire was observed underneath the turbo area of an underground haul truck. The on-board fire suppression was deployed manually extinguishing the fire. There were no injuries. [317615590001]
- Whilst at the surface waste dump, an underground haul truck sustained a fire in the engine bay. Initial indications are that an oil line to the fuel pump has ruptured spilling oil onto the exhaust manifold which then ignited. The on-board fire suppression was deployed and extinguished the fire. There were no injuries. [317617211001]

( ) The number in brackets next to each category is the total number of incidents reported for that category.

**Metalliferous, Extractives & Other Non-Coal**

**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(e) uncontrolled explosion or fire (38)**

- A fire started in the engine bay of an underground haul truck when it appears that foreign material left from maintenance activities fell onto the exhaust manifold and ignited. The operator immediately activated the on-board fire suppression system and also deployed a fire extinguisher to ensure the fire was extinguished as quickly as possible. There were no injuries to any personnel. [317617092001]

**MHSR 2007 CI 145(f) escape of fluid under high pressure that endangers a person (2)**

- Fitter was conducting hydraulic fluid leak test on excavator when one of the plugs on the filter case that was changed during the maintenance was ejected at around 4000psi, injuring hand. Wrong plug was used for the filter case. [317608835001]
- A portable 5hp motor with pump was feeding the screen when it stopped working. The loader operator went to investigate and opened the water priming cap and was sprayed with boiling water on arm and face requiring hospitalisation. [317609292001]

**MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids (3)**

- An excavator became bogged due to heavy rain over a weekend. Whilst attempting to recover the machine a hydraulic hose was damaged, spraying oil into the air. No injuries. [317606988001]
- Rock spilled from a crowded loader bucket and damaged the hydraulic hose coupling causing hydraulic fluid to escape into the work environment. Nobody was injured or exposed to hydraulic fluid. [317607828001]
- An O-ring on the hydraulic ram of an excavator failed, causing hydraulic fluid to leak onto quarry floor. No persons were exposed to the fluid. [317608446001]

**MHSR 2007 CI 145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations (13)**

- Front end loader reversed into dump truck, damaging truck trim and loader counterweight. Operator failed to follow reversing procedure and reversing alarm not wired correctly. No injuries. [317604060001]
- A light vehicle travelling up the decline contacted a protruding blast gate which subsequently pierced the front and rear windscreens. No injuries. [317605903001]
- Unattended B-double truck ran down slope and hit vehicle before coming to rest on the weighbridge. [317607117001]
- Front end loader reversed into a water truck that came into the working area. [317608688001]
- Loader reversed into the side of a dump truck - Inadequate communication, unclear procedures about where to tip when loader was operational [317611779001]

- A 40 tonne forklift was driven under an overhead conveyor and caused significant damage when the mast hit the steel structure supporting the conveyor. The conveyor support steel work will need to be replaced. Following an independent assessment of the structure the conveyor was returned to service. Nil injuries, minor equipment damage and significant damage to the conveyor support steel work. [317611140001]
- Light vehicle slid into building causing windscreen to smash after driver exited vehicle [317611318001]
- Ute damaged when it rolled slowly backwards approx. 15-20m down airway after being parked with handbrake applied but engine on and transmission in neutral. [317611651001]
- An approaching loader collided with another while it was reversing near the weigh bridge - lack of communication between operators. [317612402001]
- Loader operator moving stockpile chute reversed into leg on pipe support tower. [317612623001]
- Front end loader backed into conveyor support - loader reversed not seeing conveyor support [317615073001]
- A collision between a 3 axle rigid truck and a 55 tonne off-road dump truck. No injuries sustained. [317613952001]
- A collision occurred between a private light vehicle and a heavy vehicle. [317615230001]

**MHSR 2007 CI 145(j) loss of control of vehicle or other machinery (28)**

- An operator of a dumptruck reported that whilst driving the truck in the main decline the truck suddenly veered off to the left and collided with the drive wall. Initial investigations found that the trucks steering systems were functioning normally. Minor damage to the truck and no injury to personnel. [317603667001]
- Loss of control of vehicle when tow chain broke whilst attempting to tow and the unit rolled backwards into a light vehicle. Inadequate risk assessment and underrated chains used to tow the unit. [317603991001]
- A contractor's loaded dump truck tramping up an access ramp to a tailings dam slid off the outer edge and came to rest with one side of the truck off the edge of the ramp. The ramp was being widened and the outer edge was not sufficiently compacted to support the mass of the truck and did not have a safety bund. [317604483001]
- An on highway concrete agitator truck lost control while descending a ramp in an underground mine and impacted the wall. The truck driver reported a steering failure. Investigation determined truck lost traction on slippery road surface, inappropriate tyres, and truck not fit for purpose. [317604329001]
- Loader was placing stemming material on a blast site on the quarry bench and reversed over the face, landing approx 10 metres on the bench below. [317604703001]
- Whilst reversing, a compacting roller slid in wet conditions and damaged the mud guard of an explosives truck. [317605649001]
- Road truck loaded with sand hit a 1 metre high pole and give way sign at site exit. No injuries. [317605144001]
- Front end loader rolled forward at the fuelling bay due to faulty park brake [317605641001]

**Metalliferous, Extractives & Other Non-Coal**

**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(j) loss of control of vehicle or other machinery (28)**

- A service truck descending a decline in an underground mine suffered a front brake failure. Steel fittings to the rubber brake line had corroded and failed resulting in a loss of brake pressure. The operator activated the emergency brake which applied the rear brakes which are wet brakes and which were still operable. The truck was brought to a controlled stop, turned into the wall, and the wheels chocked pending removal to a maintenance bay for inspection. A steel ferrule and clamp on the end of a rubber brake line to the front brake had become corroded and failed resulting in a blown brake hose and loss of brake pressure. The corrosion had not been identified by previous inspections due to the ferrule being coated with dried mud. [317606791001]
- A trainee dump truck operator was negotiating a tight corner while travelling underground, his line of approach was wide and the vehicle was not in low gear as required. The truck hit the wall and stopped with modest damage to the prime mover. ICAM found the cause was not following procedure and inattention by the trainer supervising the trainee. OEM inspection found no issues with braking systems. [317607588001]
- A front end loader was being used to extend an earthen roadway across a shallow tailings dam. The loader operator reversed onto soft ground at the edge of the roadway. The right hand side wheels sunk into the soft ground and the loader tilted over to approx. 60 degrees to the horizontal and became bogged. [317607917001]
- Driver of light vehicle lost steering while driving down decline when knuckle in drag link came off and connection to the steering box was lost. [317608240001]
- Loss of traction of haul truck during gear changing due to greasy road after showers in-pit. Result was minor damage to truck when ladder hit high wall. [317608300001]
- Driver of light vehicle lost steering while driving when the steering arm fell out of kingpin bearing when studs fell off. [317608410001]
- Haul truck travelling at low speed down main ramp lost traction and stopped perpendicular to traveling direction. Surface was wet and slippery due to light rain. No contact or injury. [317609244001]
- Water truck rolled forward approximately 4m into wall when maintenance fitter working on park brake circuit started operating cabin lift pump to tilt the operating cabin. [317610150001]
- A ship used to transport river gravel was not able to select reverse gear whilst docking. The ship manoeuvred away from the dock before anchoring and maintenance was performed. A locking pin used to secure a pin in the selector drive yoke had fallen out meaning that reverse gear could not be selected. [317610758001]
- Two men working in an elevated man basket attached to a stationary integrated tool carrier. As the basket was lowered to the ground the tool carrier moved backwards a short distance. No persons were injured. Park brake was unservicable and failed standard pre start test. Mine has commenced review of training and maintenance packages for inspection and testing of brakes. [317611000001]

- Uncontrolled movement of grader when operator was stopped, realigning the grader blade and the grader moved 1 metre through park brake. Initial investigation indicated a mechanical fault with the park brake. [317611498001]
- Tipping tray of a bin truck toppled to one side when it was in a raised position on a stockpile. No injuries. [317611739001]
- Braking systems failed on a dump truck while in operation. [317612593001]
- Teleremotes vehicle was not parked in accordance with mine procedure. The vehicle rolled backwards and struck the loader. [317613689001]
- Drill rig rolled into face after jacks were lifted on completion of drilling face. Ramp at 1 in 7 but floor in good condition. Park brake was out of adjustment and failed to hold rig. Park brake test and maintain procedure revised and operation of jacks procedure revised. [317614076001]
- Driver lost control of vehicle while driving down the decline. Slippery road. Inspection of vehicle and brake tests showed there was no mechanical problems with the vehicle. [317615501001]
- Light vehicle left hand front wheel hub came away. Vehicle blocked decline. Suspected bearing failure. [317616634001]
- Whilst working underground, a contractor was lowering the tilt tray of the truck he had just loaded an EWP onto, when the truck began to slowly roll forward gathering momentum and travelling approximately 100m before coming to rest against the entrance door of the refuge chamber. There were no injuries to any personnel. [317617082001]
- A 30 tonne excavator was constructing a path around a decant water pond at the bottom of an open cut. While pushing back a wall next to the pond part of the path collapsed into the pond and the excavator tracks slid off the solid rock into the pond. [317617088001]
- Driver lost control of light vehicle. Apparent cause was foot brake failure. [317617308001]

**MHSR 2007 CI 145(k) overturning of vehicle or other machinery (23)**

- Mini excavator rolled on to its side when a loading ramp slipped from the rear of the truck - No locking pins [317603950001]
- Light vehicle rolled onto its side when driver swerved to miss a kangaroo. [317604273001]
- Truck/tub roll over on 6 wheel dump truck. Surface was wet as a result of heavy rain. [317604981001]
- Road registered truck was tipping road material which had been stripped off the mine access road. Whilst raised, the tray fell to the ground on the left side, lifting right side wheels off the ground. Truck chassis appears twisted. No injuries. [317604938001]
- Truck reversing to tip into stope rolled onto side. Reversing onto bund on stockpile at 90 degrees to decline coming off gradient onto level ground. [317605548001]
- While hauling material, dump truck operator experienced sun glare, was momentarily blinded and drove over safety bund into previous borrow pit area. Vehicle came to rest on its side, operator was unharmed and exited the vehicle. [317606508001]
- Rear tub of loaded 30 tonne six wheeled moxy truck rolled over on corner of haul road. Haul road had recently been wetted for dust control which may have contributed to truck rolling over. [317606576001]



**Metalliferous, Extractives & Other Non-Coal**

**Mech Equip Mobile (150)**

**MHSR 2007 CI 145(k) overturning of vehicle or other machinery (23)**

- An articulated dump truck slid back over a tipping bund when commencing to tip, causing the rear wheels to be bogged and the front cab to be raised off the ground and turned over. The apparent cause was a combination of tipping on a downward slope and clay material giving way at the tipping point as the truck slid backwards. No injuries occurred. [317607873001]
- Truck prime mover and the 1st trailer of the double configuration rolled whilst stationary on side of access road to site. The shoulder of the road was cambered fairly steeply and during the tipping of the load the centre of gravity passed the point of stability. [317608811001]
- A service vehicle rolled onto its side as it mounted an embankment during the night in a fog. It appears the vehicle's right hand front tyre struck a large rock on the roadway causing the driver to lose control of the steering wheel and the vehicle to veer into the embankment. No injuries occurred. [317609402001]
- An articulated dump truck partially rolled over when it slipped over the side of the 'in pit bottom bench' - access road. Heavy rains had made the road slippery and the truck was conducting 'sheeting' work on the road at the time of the incident. The cabin rolled on its side and the tray remained upright. Nil injuries. [317610371001]
- LV travelling down ramp in u/g mine at moderate speed on slippery road surface. Applied brakes to turn slightly at ramp 'Y' intersection and vehicle stalled, slid on road surface and rolled over onto drivers side. Driver was wearing seatbelt. Driver checked at mine for injury and returned to work. [317611286001]
- Moxy truck tub roll over on tailings access road. Inexperienced operator and poor road conditions (wet). Possible mechanical problems to be investigated. [317611803001]
- Mobile plant incident - half full articulated dump truck. Tray tipped over whilst truck turning at low speed on clean dry stockpile area. [317612458001]
- Development Jumbo overbalanced onto left hand side while bolting due to rear jacks up and the position of the booms. Operator uninjured. [317613583001]
- The body of a contractor's truck rolled over to one side while being raised to tip sand onto a stockpile. [317612595001]
- A 4wd station wagon travelling on a surface haul road failed to negotiate a slight bend and skidded out of control for about 100 metres before rolling twice and coming to rest on its wheels. The driver appeared to be uninjured but was transferred to hospital where he was examined and released. The vehicle was examined and found to be in good order. Investigation concluded driver travelling at excessive speed. [317612937001]
- The rear trailer of an A-B triple overturned while tipping mineral product. Truck was too large for density of material. [317613231001]
- Loader rolled on its side while being operated on tele remote control [317613031001]
- While tipping off a load of material at the stock pile area the side tipping rear trailer overturned onto its side. The high moisture content was above the cartage level causing a 'hang up' causing the trailer to overbalance. [317617370001]

- Water truck tipped onto non-operator side into approximately one metre of tailings when the truck slipped off edge of causeway. Operator taken to hospital for precautionary assessment. [317614472001]
- A small barge involved in replacing the non metallic pipeline that was carrying sand from a dredge, flipped over when the operators lifted the pipe up from the water. [317615094001]
- Operator driving a loaded concrete agitator truck downhill around a left hand bend, drove over a rock and the rear section toppled. Momentum of turning and pitching upwards on rock caused agitator bowl to topple rear end of machine over on its side. [317616448001]

**MHSR 2007 CI 145(p) burial of machinery such that it cannot be recovered under its own tractive effort (4)**

- Bogger bucket became entrapped in rill of block cave drawpoint. The loader entered too far into a partially hung-up drawpoint. When the drawpoint rilled the bucket became trapped. [317606855001]
- While a loader was being operated on teleremotes a fall of material has struck the unit causing damage such that the unit could not be trammed out of the stope under its own power. [317614907001]
- Loader stuck inside stope when rock came off side wall onto the loader. Loader retrieved next day. [317615628001]
- The bund and crest of a manufactured sand stockpile gave way while a haul truck commenced tipping against the bund. The haultruck slumped and slipped backwards partially down the stockpile slope. No injuries occurred and the truck was recovered by an excavator. [317616618001]

**Other Notifiable (8)**

- Driller's offsider sustained injuries to finger when finger was caught between rod spinner and mast frame of drill rig. Initial cause appears to be failure of OEM locking pin for the rod spinner. Also, driller's offsider put hand in 'line of fire' and breakdown of communication between driller and driller's offsider. [317605301001]
- LV rolled backwards with RH door opened, damaging door. Driver did not apply park brake. [317606952001]
- Operator of integrated toolcarrier closed door onto right hand and suffered open comminuted fracture to end of middle finger. Toolcarrier was parked on side to side slope with door opening to downward side. Operator, seated and supported with right hand on door frame, reached out to grasp door handle with left hand and pulled door shut with some force onto right hand. [317606894001]
- Tyre fitter sustained dislocated toes after flange section of tyre rim was lowered onto right foot. [317609372001]
- A fitter working on a LHD unit's door mounted window wiper that had not been correctly isolated suffered a crush injury to his finger when the window wiper functioned whilst his hand was in the vicinity of the wiper motor and workings. [317609216001]
- Miner installing resin rockbolts with hand held rock drill and air leg jammed hand between rock bolt dolly and backs when air leg extended quickly. Top of left hand middle finger amputated. [317610465001]
- Truck operator sustained soft tissue injury and slight concussion requiring hospital admission, when a tyre blow out caused the operator to impact with the roof of the cab. [317614675001]

## Metalliferous, Extractives & Other Non-Coal

### Mech Equip Mobile (150)

#### Other Notifiable (8)

- Drillers assistant had part of his middle finger amputated when the breakout lever was accidentally engaged while rods were being pulled out. Finger was crushed between breakout tool and fool clamps. [317616580001]

#### High Potential (7)

- Loader drove over open hole and came to rest over open hole. Inadequate demarcation of open hole. [317604085001]
- An employee was using a small portable ladder to service a front end loader when his foot slipped off the top step and his leg slid down the side of the ladder resulting in a laceration that required multiple stitches. [317605379001]
- Blown hose on excavator, oil spread over cab [317613573001]
- FEL reversed into light vehicle resulting in minor damage to the light vehicle. [317607066001]
- A driller was conducting routine drilling operations when he lifted the boom to advance to the next hole. As he lifted the boom the housing and bush supporting the main pin holding the boom failed and the boom fell to the ground. A mechanical failure of the welds and surrounding housing has been progressive and the lifting of the boom has caused the entire assembly to fail. [317609833001]
- During a dredging operation a barge and a RMS ferry collided into each other with a higher impact level than normal. Minor damage was sustained on the barge. [317613188001]
- Light vehicle rolled over on public road on exploration lease while travelling between drill site and mine office [317613332001]

#### Other (1)

#### Other Notifiable (1)

- While walking down a steep batter, worker slipped and twisted right knee [317618995001]

#### Self Heating (1)

#### MHSR 2007 CI 145(e) uncontrolled explosion or fire (1)

- A heat gun was being used to shrink plastic wrapping at a mine construction site. The gun was placed on the floor and has ignited a nearby cardboard box. The small fire was quickly extinguished. Nil injuries and minimal damage resulted. [317616235001]

### Strata/Ground Control (15)

#### MHSR 2007 CI 145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present (10)

- The mine reported that a stope firing has apparently caused a breakthrough into an unknown void below a 20 sublevel drive. A large void was picked up by CMIS survey. The area has been 'no-roaded' and filling strategy implemented. Nil injuries and no equipment damage. [317604009001]
- About 50t of side wall fell onto the bund. Ground deterioration and support failure. Fall off into stope. No damage or injury. People were in the area. [317608016001]

- A fall of shotcrete ground support approximately 11 metres back from the decline face. The fall occurred during the shift and was witnessed by two workers. The investigation will consider shotcrete quality (adhesion, fibre distribution and aggregate size) and application. [317611350001]
- Rock fell from wall near drawpoint [317612446001]
- Fall of small rocks from face. Charge up operator working at face was struck by the rocks and sustained minor abrasions. [317613709001]
- A fall of ground (approximately 2 tonnes) has been discovered on the level adjacent the shaft access drive. The main part of the fall occurred in a disused area which had been barricaded off, to prevent 'unauthorised access'. Some of the fallen rock rilled into an adjacent access which is still used by mine personnel. Nil injuries and no damage. [317616007001]
- A fall of ground occurred in an underground truck load bay causing damage to a truck. Approximately 2 tonnes of material fell from about 2 metres height (off drive wall). Minor damage to the truck mudguard and engine oil cooler. No injuries [317616531001]
- A piece of rock and out of specification shotcrete fell onto a light vehicle cabin causing significant damage. Area was affected by groundwater seepage. [317617776001]
- Significant fall of ground on sidewall of access ramp, possibly triggered by nearby stope firing. Fall did not impact on the travelling way itself, but did compromise the support on the sidewall. [317619219001]
- An estimated 1t-2t of material fell from sidewall and shoulder of access ramp due to deterioration of ground support in drive sidewall. [317619217001]

#### MHSR 2007 CI 145(p) burial of machinery such that it cannot be recovered under its own tractive effort (2)

- While conducting clean up of rehabilitated area, a rockfall landed on bucket of loader. Loader was unable to be reversed under its own power and operator climbed out of window. [317608909001]
- A 30 tonne excavator was laying piping over an area where storm water had been pooling when it suddenly sunk. The vehicle was bogged up to the cabin doors and the operator escaped through the escape hatch in the roof of the operators cabin. [317615594001]

#### MHSR 2007 CI 146(1)(e) significant misfire of explosives (1)

- Misfire occurred while blasting to create a ramp for a new haulage road. A loose rock fell from the highwall and severed the non-electric connector line prior to initiation. [317614677001]

#### Other Notifiable (1)

- When working in the service shaft, an object fell and struck a worker on the left hand resulting in a deep laceration to the hand and fracture of a finger. The injured person was flown to hospital and the broken bone was pinned. [317612236001]

#### High Potential (1)

## Metalliferous, Extractives & Other Non-Coal

### Strata/Ground Control (15)

#### High Potential (1)

- Failure of a section of weathered material occurred along an upper bench wall of the quarry overnight. About 2 months earlier, blasting of the bench below resulted in significant back-break to the toe of the bench above which may have weakened the rock structure, causing the failure. No personnel were in the quarry at the time and the area has been bunded to prevent equipment access and an inspection of the bench integrity is underway. [317613396001]

### Structural Failure (1)

#### MHSR 2007 CI 145(h) abnormal inrush of fluid materials (1)

- Inrush of fill material into stope and onto two levels from pillar breach. [317605909001]

### Water (6)

#### MHSR 2007 CI 145(h) abnormal inrush of fluid materials (4)

- Inrush of water into quarry area from river flooding. [317610534001]
- Heavy rainfall resulted in river flooding causing levy bank to collapse and flooding the pit area during the night. No equipment was lost. [317606742001]
- Heavy rainfall resulted in river flooding causing the levy bank (which was part of the pit road) to collapse and flooding the pit area during the night. No equipment was lost. Some equipment was stranded. [317607826001]
- Abnormal volume of water flowing into shaft. Suspected source of water reported to be tailings disposal from the commissioning of a new concentrator. [317608352001]

#### High Potential (2)

- Inrush of water from local flooding. [317607642001]
- A boat was taking gear across to a dredge. The load was too heavy and water lapped into the boat which sank before it reached the dredge. Operator was immersed in water as the boat sank. [317614093001]

### Work Environment (33)

#### MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure (1)

- A chain block was used to provide tension on a tool (drift) which was being used to align a bolt hole on a steel structure. The hook slipped off the tool and hit a rigger in the face. [317614059001]

#### MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery (2)

- While hitching a trailer to a stationary vehicle (utility) the trailer rolled forward crushing the middle finger on the left hand. The result was loss of the finger tip. The trailer may have moved quickly due to uneven ground. [317608292001]
- Operator injured knee when foot slipped on damp track of excavator [317613011001]

#### MHSR 2007 CI 145(e) uncontrolled explosion or fire (5)

- Sea containers destroyed by fire with loss of spares and stores - no injuries and likely cause was attributed to a discarded cigarette [317607866001]
- Small grass fire occurred while dozer was being used to push trees. The dozer blade contacted rock resulting in sparks igniting dry grass covering the rocks. [317614695001]
- Fire on underfelt matting probably caused by discarded cigarette. [317616009001]
- Fire caused by a cigarette butt being discarded into a dry mop bucket. The fire was extinguished using water and a fire extinguisher. [317616099001]
- Small fire in timber and vent bag stored adjacent to diesel operated air compressor. Heat from exhaust ignited timber and vent bag. Fire extinguished by nearby operators with hand held extinguisher. [317617090001]

#### MHSR 2007 CI 145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present (2)

- Fall of ground in development drive due to wedge formed between two faults [317604310001]
- A seismic event in development heading. No injuries. [317610445001]

#### MHSR 2007 CI 146(1)(d) spill or incident resulting in exposure or potential exposure of person to notifiable or prohibited carcinogenic substance (1)

- Two electricians removed panelling from a wall in a storage room and were exposed to asbestos dust and sheeting. It appears site management was not aware of the presence of asbestos material in the wall. [317609418001]

#### MHSR 2007 CI 146(1)(g) progressive stope or progressive pillar collapse (1)

- A development jumbo operator was struck on his left leg by a jumbo trailing cable which had been pulled from a quad hook hanger by a traming jumbo [317616567001]

### Other Notifiable (20)

- Operator impaled hand on protruding steel wire whilst moving large diameter rubber pipe. [317604727001]
- Person slipped on rubber mat and injured shoulder while priming pump. [317605090001]
- Operator stepped off bottom step of dump truck stairs landing on a small stone and twisted left ankle. [317605959001]
- While dragging hoses on an uneven embankment leading to a sump pump the victim fell to the ground and landed on his shoulder. [317607044001]
- Wrist cut when hand slipped while using disc sander to remove rubber/silastic from flange on slurry distribution box at concentrator. Unguarded abrasive disc was larger in diameter than rubber backing plate. [317608314001]
- Operator top finger joint partially severed by rock falling from face while installing lifter tubes. Micro surgery restored finger. [317608304001]
- Operator disembarked from machine onto uneven surface, twisting both knees, and subsequently unable to perform normal duties for >7 days [317609910001]
- Operator injured shoulder resulting from slip from excavator [317613619001]

## Metalliferous, Extractives & Other Non-Coal

### Work Environment (33)

#### Other Notifiable (20)

- Whilst replacing liners on screw shaft, operator directing crane movement of boom extension had finger caught between boom's rhino hook and mating mill liner resulting in finger tip amputation. [317609715001]
- Technician working on pump platform fell backwards from height. Left leg impacted on jack handle causing deep puncture wound. [317609763001]
- Operator strained his right shoulder whilst opening hinged door on top of air separator. [317618475001]
- Worker standing in back of service vehicle tripped on shackle & fell hitting left shoulder on side of tray resulting in a minor fracture. [317610486001]
- An operator washing a haul truck sustained an eye injury when the high pressure hose flicked back and the minsup clamp on the hose hit his eye. Injury resulted in person being unfit to attend their usual place of work for a period greater than 7 days. [317611675001]
- Worker injured when head struck an unknown object. [317611653001]
- Loader operator was feeding bin with rock material and was unaware that another worker was attempting to remove a stick from the jaw crusher bin. The worker was struck by falling rock and sustained a fractured nose. [317612167001]
- Worker injured shoulder and required surgery. [317622356001]
- An employee reported pain in right shoulder that had developed over the course of the shift whilst carrying out normal duties, resulting 11 days off from normal duties [317618911001]
- Worker experienced pain when stepping down from loader and returned to work on alternative duties. [317622358001]
- Operator fell from steps when conducting sampling in mill [317617464001]
- Worker tripped while carrying a piece of dimension sandstone to stack a pallet. When the victim fell to the ground, the sandstone fell onto his fingers, causing a fracture of his left ring finger and little finger. [317616269001]

#### High Potential (1)

- Operator overbalanced after stepping into a small hole, fell over and hit head on jumbo jack [317613559001]

**Number of Notifiable and High Potential Incidents  
NSW Metalliferous, Extractives & Other Non-Coal -  
2012: 284**

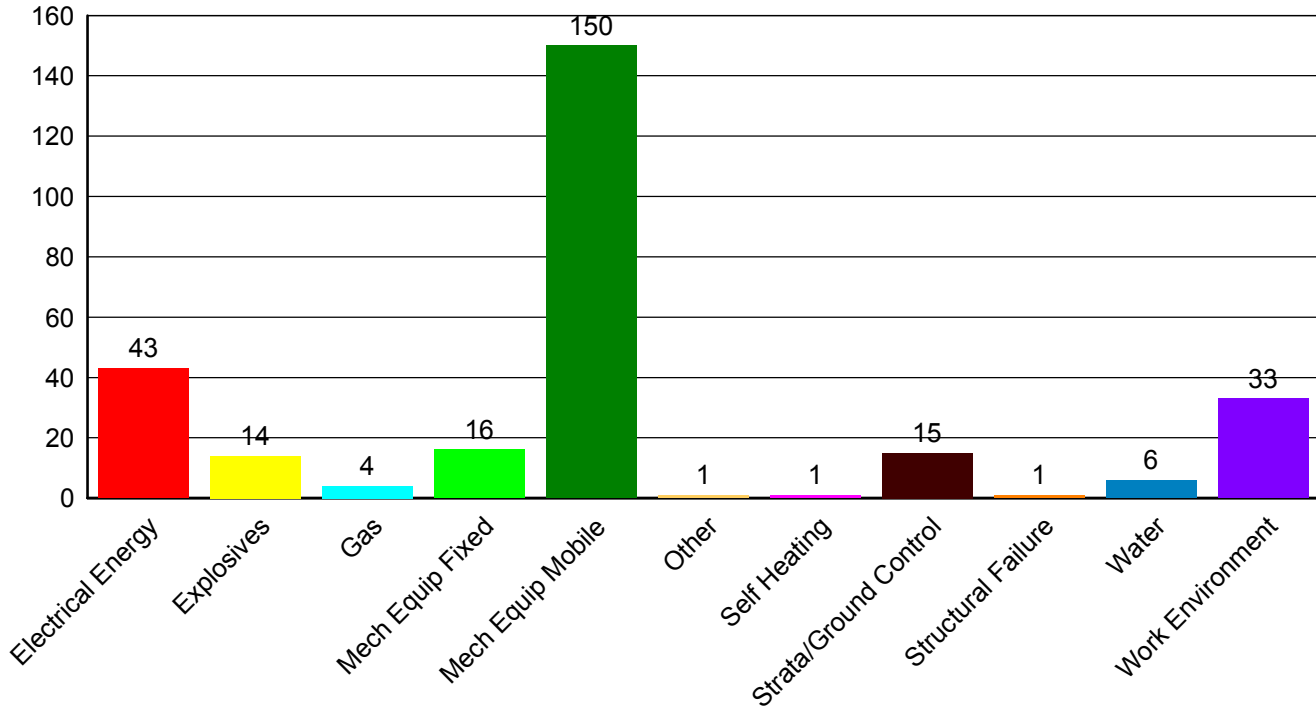


**Summary**

<b>Summary</b>		<b>Total</b>
<b>Electrical Energy</b>	MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure	1
	MHSR 2007 CI 145(c)(ii) imminent risk of explosion or fire	1
	MHSR 2007 CI 145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	9
	MHSR 2007 CI 145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	3
	MHSR 2007 CI 145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	24
	MHSR 2007 CI 145(e) uncontrolled explosion or fire	3
	High Potential	2
	<b>Total</b>	<b>43</b>
<b>Explosives</b>	MHSR 2007 CI 145(e) uncontrolled explosion or fire	1
	MHSR 2007 CI 145(l) ejection of fly rock so that it falls outside blast exclusion zone	1
	MHSR 2007 CI 146(1)(e) significant misfire of explosives	3
	MHSR 2007 CI 146(1)(f) problem or fault in explosive product or accessory	3
	Explosives Regulation 2005 : 39 Loss or theft of explosives or explosive precursors	1
	Explosives Regulation 2005 : 75(1)(c) incident involving explosives and involving risk of an uncontrolled explosion or fire or of any such death, injury or damage	2
	High Potential	3
	<b>Total</b>	<b>14</b>
<b>Gas</b>	MHSR 2007 CI 145(e) uncontrolled explosion or fire	3
	MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids	1
	<b>Total</b>	<b>4</b>
<b>Mech Equip Fixed</b>	MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure	3
	MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery	1
	MHSR 2007 CI 145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	1

		<b>Total</b>
<b>Mech Equip Fixed</b>	<b>MHSR 2007 CI 145(e) uncontrolled explosion or fire</b>	5
	<b>MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids</b>	1
	<b>MHSR 2007 CI 145(m) failure of any part of powered winding system or damage to shaft or shaft equipment</b>	4
	<b>Other Notifiable</b>	1
	<b>Total</b>	16
<b>Mech Equip Mobile</b>	<b>MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure</b>	6
	<b>MHSR 2007 CI 145(c)(ii) imminent risk of explosion or fire</b>	4
	<b>MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery</b>	12
	<b>MHSR 2007 CI 145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person</b>	2
	<b>MHSR 2007 CI 145(e) uncontrolled explosion or fire</b>	38
	<b>MHSR 2007 CI 145(f) escape of fluid under high pressure that endangers a person</b>	2
	<b>MHSR 2007 CI 145(g) uncontrolled issue of gas or fluids</b>	3
	<b>MHSR 2007 CI 145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations</b>	13
	<b>MHSR 2007 CI 145(j) loss of control of vehicle or other machinery</b>	28
	<b>MHSR 2007 CI 145(k) overturning of vehicle or other machinery</b>	23
	<b>MHSR 2007 CI 145(p) burial of machinery such that it cannot be recovered under its own tractive effort</b>	4
	<b>Other Notifiable</b>	8
	<b>High Potential</b>	7
	<b>Total</b>	150
<b>Other</b>	<b>Other Notifiable</b>	1
	<b>Total</b>	1
<b>Self Heating</b>	<b>MHSR 2007 CI 145(e) uncontrolled explosion or fire</b>	1
	<b>Total</b>	1

		<b>Total</b>
<b>Strata/Ground Control</b>	MHSR 2007 CI 145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons	10
	MHSR 2007 CI 145(p) burial of machinery such that it cannot be recovered under its own tractive effort	2
	MHSR 2007 CI 146(1)(e) significant misfire of explosives	1
	Other Notifiable	1
	High Potential	1
	<b>Total</b>	<b>15</b>
<b>Structural Failure</b>	MHSR 2007 CI 145(h) abnormal inrush of fluid materials	1
	<b>Total</b>	<b>1</b>
<b>Water</b>	MHSR 2007 CI 145(h) abnormal inrush of fluid materials	4
	High Potential	2
	<b>Total</b>	<b>6</b>
<b>Work Environment</b>	MHSR 2007 CI 145(c)(i) damage to any plant, equipment, building or structure	1
	MHSR 2007 CI 145(c)(v) unintended activation or movement of vehicles/machinery	2
	MHSR 2007 CI 145(e) uncontrolled explosion or fire	5
	MHSR 2007 CI 145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons	2
	MHSR 2007 CI 146(1)(d) spill or incident resulting in exposure or potential exposure of person to notifiable or prohibited carcinogenic substance	1
	MHSR 2007 CI 146(1)(g) progressive stope or progressive pillar collapse	1
	Other Notifiable	20
	High Potential	1
	<b>Total</b>	<b>33</b>
<b>Total</b>		<b>284</b>



For further information, please contact your local NSW Trade & Investment Mine Safety Office.

A list of NSW Trade & Investment Mine Safety Offices and contact details can be found at :

<http://www.resources.nsw.gov.au/safety/mine-safety-offices>