Incident	Agent of	Events	Recommendations
Information	Fatality		
Chemical Isolation			
2/01/2007 United States Non-Coal Open-Cut	Uncontrolled release of energy	Electrician opened a valve in a piping system of a vacuum monitoring line when a burst of hydrogen fluoride discharged into his face.	Review of all work procedures related to chemical products, initiate standard work procedures for cleaning vacuum monitoring lines.
19/07/2005 Australia South Australia Non-Coal Underground	Explosives	Underground explosives ignited prematurely.	vielum montoring mes.
31/05/2004 United States Non-Coal Open-Cut	Pressure Vessel Explosion	Truck driver was sprayed by diesel when a hose disconnected from a quick connect fitting.	Ensure safe procedures for off loading of fuel to the tanker truck, PPE for fuel loaders, install safety shut-off valves and implement standard inspections.
5/09/2003 United States Coal Open-Cut	Pressure Vessel Explosion	Man was using acetylene torch on anti-freeze drum when it exploded due to static electricity from the torch tip.	There must be procedures in place to deal with misconduct, which should then be strictly enforced.
8/04/1999 United States Non-Coal Open-Cut	Uncontrolled Release of Energy	A maintenance supervisor was fatally injured repairing a defective charging valve on rear suspension cylinder on a haul truck. After failing to remove valve, he applied penetrating oil and heat from a torch to loosen valve and cylinder rod blew out.	Maintenance not to be performed until equipment components are blocked against motion. Procedures established by manufacturer to be followed when performing maintenance or repair. Heat or open flame not to be used where there is a fire or explosion hazard.
8/05/1996 United States Non-Coal Open-Cut	Explosives	A truck driver was killed at a crushed stone quarry. The employee was in the process of preparing two primers by inserting non-electric caps into each of the one-pound primers. One of the primers detonated killing the victim instantly.	
27/04/1993 Australia New South Wales Coal Open-Cut	Other Explosion	A Fitter received fatal injuries when the Quell fire suppression canister he was recharging exploded.	
21/06/1987 Australia Western Australia Non-Coal Open-Cut	Explosives	Was caught in the detonation of an unknown quantity of explosives while working in a trench caused by an old stope breaking through to the surface.	
14/08/1981 Australia New South Wales Coal Underground	Explosives	Died of injuries received from the detonation of 3 electric detonators in close proximity to chest.	

1000			
1980	Explosives	A magazine attendant was killed	
United Kingdom		when disposing by burning some	
Coal		30kg of P4/P5 type permitted	
Underground		explosives which had been	
0		recovered from a misfire. A worker	
		using a propane burning equipment	
		4m away, who had been asked by	
		the attendant to ignite the heap of	
		explosives with his torch escaped	
		with only minor injuries.	
1980	Explosives	At an explosives reserve station,	
	Explosives	200kg of ANFO explosive	
United Kingdom		detonated	
Coal		detonated	
Underground	<b>F</b> 1 '		
1968	Explosives	Was killed when an unsuspected	
New Zealand		misfire was drilled into the face	
Non-Coal			
Open-Cut			
Electrical Isolation			
5/11/2006	Electrocution	Electrician touched a 23kV circuit	Removal of the auxiliary
United States		on a dragline. He was not qualified	power system, qualified
Coal		to perform this work.	electricians to use only, list o
Open-Cut			electric equipment to be
			examined on dragline and
			strengthened lock out, tag out,
			ground procedures.
12/10/2006	Electrocution	Maintenance coordinator fatally	Protect all circuits with over
United States		injured when an electric short	current protective devices and
Non-Coal		occurred in a ball mill starter	ensure their maintenance.
Open-Cut		circuit. Current circuit protection	chiefe and maintenance.
		failed.	
21/06/2006	Electrocution	Contract electrician suffered	Management should perform a
United States	Lieutocution	electrocution causing fatality due	risk assessment with each
Non-Coal		to failing to check the electric	contractor before any work is
Open-Cut		circuit was de-energised and	started. Isolation of electrical
Open-Cut		leaning on the circuit while	circuits.
			circuits.
19/05/2006	Electrocution	installing new equipment. Contract electrician suffered	Management should not form a
United States	Electrocution		Management should perform a risk assessment with each
		electrocution causing fatality due	
Non-Coal		to failing to check the electric	contractor before any work is
Open-Cut		circuit was de-energised on a new	started. Isolation of electrical
1 - 11 1 1000 -		motor being tested.	circuits.
15/11/2005	Electrocution	Electrician was working to restore	
Australia		a pump to working order and was	
Western Australia		found in the room by himself	
Non-Coal		electrocuted.	
Underground			
4/11/2005	Electrocution	Electrician was demonstrating the	High voltage safety gloves are
United States		use of high potential cable tester	to be use and electricians all
Coal		when he received fatal shock.	received training about this.
Underground			
23/05/2005	Electrocution	Victim was electrocuted while	Establish procedures for
United States		checking an excess dust build-up	electrical circuits to be locked
Non-Coal		inside a transformer on stress	and tagged out when
Underground		cones of primary side of	maintenance is being
		transformer.	performed.
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28/03/2005 United States Non-Coal Open-Cut	Electrocution	Electrician was fatally injured when he contacted an energized electrical circuit.	Procedures put in place for lock out, tag out system when performing maintenance, in depth training of plants electrical configuration for electricians.
23/10/2004 United States Coal Underground	Electrocution	While installing a new transformer, victim put grounding clamps on an energized circuit and was electrocuted.	Develop procedure checklists and isolate, tag, lock electric circuits before commencing maintenance.
24/09/2004 United States Coal Underground	Electrocution	Electrician was maintaining electrical goods when a mine operator came into contact with exposed energized goods and was electrocuted.	Covering of exposed and energized wires, safety retraining of electricians, isolate, lock and tag circuits before maintenance and fix short circuited safety cables.
29/08/2004 United States Coal Open-Cut	Electrocution	While working near 12kV circuit on power pole, electrician was electrocuted as the circuit was still energized.	Tag and lock out power prior to commencing maintenance, provide sufficient training, make contact with mine operators before commencing maintenance and improve communication issues.
5/02/2004 United States Coal Underground	Electrocution	While performing maintenance during a power outage, the electricity was restored and victim was electrocuted.	Management to monitor the condition of trailing cables, retrain foremen about dangers of cable damage, retrain staff about disconnect, tag and lock out power cables when in maintenance.
19/07/2003 United States Coal Underground	Electrocution	An exposed trailing cable on one of the five shuttle cars caused water in the area to become energized and when they came into contact with victim he was electrocuted.	All of the cables in immediate area should have been de- energized and locked/tagged out, cables should be better protected from wear and not lying in any water.
13/06/2003 United States Coal Underground	Electrocution	While resolving mine power problem, victim came into contact with 12kV circuit.	Gang operated air brake disconnect was not isolated and tagged out, capacitor bank should be guarded against contact.
21/05/2003 United States Non-Coal Open-Cut	Electrocution	A foreman was fatally injured at a surface sand and gravel operation. Victim was in process of making a splice in a 480V power cable that energized a water pump. When he removed insulation he contacted a live conductor, resulting in an electrical shock.	Buried power conductors and cables to be enclosed in conduit. Isolate circuits and equipment according to industry standards prior to commencing work. Discuss work procedures and identify hazards associated with work.
21/01/2003 United States Coal Underground	Electrocution	He touched an energized steel trailer with beams on it. The trailing cable of a roof bolting machine was running through the area.	Additional training provided for all workers and pre-work analysis of an area to be performed for any risks to be eliminated.

18/00/0000	<b>D1</b>		
17/08/2002 United States Non-Coal Underground	Electrocution	A miner was fatally injured while moving a rail car mounted transformer switch as construction advanced. Victim was electrocuted when he contacted a 480V cable and a junction box to move them from rubbing rail car.	Protect circuits against excessive overloads by fuses or breakers current with standards. Ensure all metal enclosing electrical circuits is grounded. Provide equipment grounding conductors with sufficiently low impedance to limit voltage to ground.
23/05/2002 United States Coal Underground	Electrocution	While trying to remove a short circuit from trailing cable of a shuttle car, there was an explosion which severely burned the victim.	Never short circuit a trailing cable to remove a grounded phase.
21/05/2002 United States Coal Underground	Electrocution	While troubleshooting a distribution box, an electrician was electrocuted at battery charging station.	The wearing of protective gloves when dealing with electrical goods is required.
24/01/2002 United States Coal Underground	Electrocution	A labourer was fatally injured performing electrical work on a 12470V underground power centre. Problems were experienced re-energizing system after replacing a high voltage cable. Victim was inside power centre when system was eventually re- energized.	Always lock and tag out before doing electrical work. Electrical work to be performed by a qualified electrician. High voltage circuits to be grounded at all times while work is being performed.
2/10/2001 United States Non-Coal Open-Cut	Electrocution	A contract electrician was fatally injured installing power lines to an elevated electrical box mounted on the side of a building. As he swung the manlift he was working from away from building he contacted high voltage power lines.	Equipment should not be operated near energized power lines.
20/07/2001 United States Coal Underground	Electrocution	An electrician was fatally injured while preparing to move an electrical starter box, which provided power to a belt conveyor head drive. Victim came in contact with energized electrical circuit providing power to starter box.	Become familiar with electrical circuits prior to performing any electrical work. Always make sure all electrical circuits are isolated before performing any electrical work. Always follow proper lockout and tag-out procedures.
26/03/2001 Australia Western Australia Non-Coal Open-Cut	Electrocution	The deceased was engaged to undertake some upgrading work to the switchboard. Found laying on the ground near the switchboard with his head between two phase conductors it is believed that he may have contacted the conductors.	
13/03/2001 United States Coal Underground	Electrocution	An electrician was fatally injured while installing pole mounted capacitors. Victim and co-workers had installed capacitors and a twisted pair wire from substation. Plug for twisted wire began to smoke, victim pulled plug and received an electric shock.	Qualified persons should perform work on electric distribution circuits and equipment. Capacitors to be installed according to manufacturers' specifications. Capacitor frames be effectively grounded. Control power source be located at capacitor installation.

20/04/2000	T1	A	
30/04/2000	Electrocution	An underground electrician was	Care should be taken to ensure
United States		fatally injured when he contacted a	all circuits are de-energized
Coal		high voltage circuit on a power	before any work is started. De-
Underground		distribution centre. Victim was	energization devices should
		replacing circuit breakers and	never be defeated and should
		opened lid of 7200V incoming	always be maintained in
		power as visibility was limited to	operable condition. Proper
		view knife blade disconnect.	lockout and tag procedures to
			be followed at all times.
18/02/2000	Electrocution	An electrician was killed when he	All circuits should be de-
United States		contacted a phase of a 7200V	energized before work is
Coal		conductor in a high voltage	started. Only qualified persons
Underground		substation. Victim entered	should perform work on
l		substation in preparation to move a	electric distribution circuits
		defective transformer. Victim was	and equipment. A suitable
l		on top of de-energized transformer	hard hat should be worn where
		when he contacted conductor.	overhead hazards exist.
20/10/1999	Electrocution	An electrician was fatally injured	Power switches be locked out
United States		connecting phase conductors in an	and signed warning notices
Non-Coal		electrical distribution panel when a	should be posted at the switch
Open-Cut		co-worker engaged the disconnect	by the individuals performing
l		switch for the circuit resulting in a	work prior to work
		fatal electrical shock. The circuit	commencing. Areas
		wasn't isolated prior to work	containing electrical
		commencing.	installations should be entered
<b>A</b> A 100 14 000			only by authorized persons.
<b>29/09/1999</b>	Electrocution	A 44-year-old Dredge Operator	Electrical circuits must be de-
United States		was fatally injured while	energized before mechanical
Non-Coal		attempting to move a blown	work is conducted within
Open-Cut		discharge hose with a chain clamp.	close proximity of the
		He was electrocuted when the	energized circuit. Ground fault
		clamp contacted a 440-volt power	protection should be provided
		conductor.	on floating dredges to protect
7/09/1999	Electrocution	A electrician was electrocuted	persons.
United States	Electrocution		Persons should carefully plan safe work practices prior to
Non-Coal		while installing a new power line beside energized high voltage	performing tasks. Inactive
Open-Cut		power lines. Lines were separated	power lines, tools and
Open-Cut		by about 5ft, however new line	equipment must be kept a safe
		became energized through	distance away from active
		incidental contact or arcing,	power lines. Extreme caution
		shocking victim with an about	to be exercised when working
		40000V.	around high voltage power
		+0000 V.	lines.
5/07/1999	Electrocution	A preparation plant electrician was	All circuits should be de-
United States	Licentorution	checking a Limit Switch to	energized before work is
Coal		determine why the heavy media	started. A proper means of
Open-Cut		vessel motor had stopped. Victim	frame grounding should be
- <b>r</b>		was attempting to remove/repair	utilized at all locations where
		limit switch, which was located on	a hazard exists. Proper lockout
		vessel refuse chute when he	and tag procedures should be
		received a fatal electrical shock.	followed at all times.
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1/07/1999 United States Non-Coal Open-Cut	Electrocution	An electrician was fatally electrocuted when he inadvertently came in contact with a 4160-volt transformer he was in the process of replacing. Three primary connector leads supplying energy	De-energize the incoming feeder circuit prior to working on any transformers. Work areas should be examined for hazardous conditions prior to starting task.
1/07/1999 Australia South Australia Non-Coal Unknown	Electrocution	to the transformer were disconnected and still energized. A male opal miner died while using a steel file to clean an electrical cable socket.	
28/08/1998 United States Non-Coal Underground	Electrocution	A cable for a shuttle car was on the mine floor in water, which caused a circuit breaker to trip. After resetting breaker and hanging cable on rib a superintendent was electrocuted as he came in contact with damaged spot on checking the energized cable.	Ground faults should be repaired prior to energizing equipment or wiring. Cable damage should be corrected immediately. Insulated gloves should be used when handling energized cables. Power cables should be protected from damage.
23/07/1998 United States Coal Underground	Electrocution	A crew were dismantling a collector belt. Electrical circuit was energized from surface and contained a fault which energized tailpiece of collector belt. Foreman went to ring surface to isolate power when he was electrocuted by contacting a metal frame.	Electric power circuits be isolated prior to performing maintenance or repair work. Frames of electrical equipment, including switches, to be properly grounded. All electric circuits, including control circuits, to include overcurrent and overload protection
7/06/1997 United States Non-Coal Open-Cut	Electrocution	An electrical supervisor received severe burn injuries at a copper operation. A 480 volt circuit breaker had tripped and when the victim put his test leads across the terminals of the breaker, it exploded. He died the next day from his injuries.	All electrical equipment should be installed by qualified technicians. All equipment should be isolated and locked out according to isolation procedures. All electrical equipment should have visible warning signs informing employees of hazards.
16/05/1997 United States Non-Coal Open-Cut	Electrocution	A supervisor was fatally injured checking why a water pump at crusher house was not running. Two extension cords were used to supply power to pump. Polarity had been reversed on one cord allowing housing of pump motor to be energized.	
10/04/1997 United States Non-Coal Underground	Electrocution	An electrical supervisor was fatally injured while working on an energized 300 kva, 4,160/480 volt pad-mounted electrical transformer. It appeared he was dusting off the inside of the cabinet when he contacted the energized components.	All equipment should be correctly isolated and locked out according to isolation procedures prior to commencing work.

21/07/1996	Electrocution	A 15-year old boy was killed while	
United States		fishing in a river on mine property	
Non-Coal		with several friends. Water became	
Open-Cut		energized due to a short in wiring	
		connected to a water pump on	
		shore. A wire cable led from pump	
		to water. Victim died from	
		electrocution.	
26/04/1996	Electrocution	A plant operator with 5 years of	
United States		mining experience was killed at a	
Non-Coal		crushed stone quarry. Employee	
Open-Cut		came in contact with a metal	
-		building which had become	
		energized by a 480 volt power	
		cable coming from the plant	
		generator. He died from	
		electrocution.	
7/04/1996	Electrocution	In attempt to close a 7200VAC oil	
United States		circuit breaker that was tripping a	
Coal		superintendent received serious	
Underground		burns. Circuit breaker was in a	
		substation which provided	
		underground power. A final	
		attempt to close circuit resulted in	
		an explosion. Victim later died.	
31/10/1995	Electrocution	An electrician was assessing a	All energy sources should be
United States		problem at an electric substation	eliminated and isolated before
Non-Coal		and had racked-out the switching	work is commenced on
Open-Cut		mechanism. There was a load	equipment
open out		explosion and the victim was on	equipment
		fire. Victim got up and ran outside	
		where he was taken down to	
		ground and flames were	
		extinguished	
20/10/1995	Electrocution	A chief electrician was	Before working on any
United States		electrocuted while performing	equipment be sure to isolate
Coal		work on an energized 12,470 volt	and lock out as per isolation
Underground		junction box at an underground	procedures. Develop and
endergröund		coal mine. The mine was in non-	implement hazard risk
		producing status at the time of the	management and work safe
		accident.	practices and procedures to
			ensure the safety of all
			personnel.
23/09/1995	Fire	An electrician suffered fatal flash	Before work is to commence
United States	1 110	burns while testing electrical bus	on all electrical equipment it is
Non-Coal		bars to a motor control centre.	necessary to isolate and lock
Underground		While preparing to obtain correct	out all energy sources. All
Chuci și vultu		rotation on motors, the tool he was	energy sources should be
		using made contact between phase	marked for isolation points
		and enclosure of the energized	and specifications.
		motor control centre.	and specifications.
12/09/1995	Electrocution	A 1st class lineman was fatally	Work places and equipment to
United States		injured during the process of	be worked on should be
Non-Coal		connecting the power cable from	isolated as per procedures so
Open-Cut		the slurry pump to the power	as to ensure safety of workers.
Open-Cut		source when he came in contact	
			Suitable platforms and access
		with the power source. He died	to work places should be used.
		from electrocution.	

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6/08/1995	Electrocution	A maintenance foreman was fatally	All equipment should be
United States		injured whilst carrying out	isolated as per lock out
Coal Un donomoun d		maintenance on a welding machine	procedures prior to any work
Underground		at longwall. A miner in headgate	being carried out. Safe work
		was welding and complained of a	procedures should be
		loss of power. The foreman	developed and then utilised.
		removed panel and contacted energized terminals with out	
		isolating.	
26/07/1995	Electrocution	An electrician was electrocuted	
United States	Electrocution	while working with a colleague to	
Coal		install a high voltage power cable	
Open-Cut		as part of work to rehabilitate	
open out		mine. After the two men separated,	
		one went to transformer and	
		contacted an energized circuit.	
10/04/1995	Electrocution	A mine foreman was fatally	Care should be taken when
United States		injured in the process of	working around powerlines.
Non-Coal		positioning a boom crane to lift	
Open-Cut		crusher parts when the boom came	
-		in contact with an overhead	
		13200v powerline. Victim was	
		standing on ground holding the	
		cable sling and was electrocuted.	
2/04/1994	Electrocution	Electrocuted while repairing cells	
Australia		in the cell room.	
Tasmania			
Non-Coal			
Open-Cut			
1/07/1993	Electrocution	A contract carpenter was	
Australia		electrocuted when his body	
Tasmania		inadvertently bridged from an	
Unknown		electrolytic cell to earth in the	
Open-Cut		electrolytic cell room of a refinery.	
24/03/1991	Electrocution	Was digging a hole to repair a	
Australia		leaking water pipe when the crow	
Western Australia Non-Coal		bar he was using penetrated live electrical cables.	
Non-Coal Open-Cut		electrical cables.	
25/02/1988	Electrocution	Was electrocuted when he came	
Australia	Electrocution	into contact with a vehicle which	
Western Australia		was live. He was attempting to	
Non-Coal		assist a fellow employee who was	
Open-Cut		in contact with the vehicle.	
21/09/1984	Electrocution	Died of Electrocution	
New Zealand			
Unknown			
Unknown			
23/08/1982	Electrocution	Employee came into contact with	
Australia		11kV while climbing a power pole	
New South Wales		while working on transformers in	
Coal		the yard.	
Open-Cut			
2/11/1981	Electrocution	Using a jackhammer in a cable	
Australia		duct in a switchroom, a miner	
Western Australia		penetrated a 3.3kV cable and was	
Non-Coal		killed.	
Underground			

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11/04/1981	Electrocution	Came into contact with a set of live	
Australia		3.3kV fuses in a contactor module	
Western Australia			
Non-Coal			
Open-Cut			
3/12/1980	Electrocution	Was tightening a bolt through a	
Australia		terminal in an electric switch box.	
Western Australia		A live wire was trapped by the bolt	
Non-Coal		and the terminal became live,	
Underground		electrocuting him.	
30/09/1980	Electrocution	Fatally injured (electrocution)	
Australia		whilst he was engaged in welding	
Queensland		in the coal preparation plant,	
Coal		repairing a screen deck in a	
Underground	Electro cution	confined space.	
24/08/1980 Australia	Electrocution	Fatally injured when he received an electric shock from an item of	
		electrical equipment in the	
Queensland Coal			
<b>Underground</b>		workshop.	
1980	Electrocution	Received a fatal electric shock	
United Kingdom	Electrocution	while attempting to test the interior	
Coal		of an underground 3.3kV circuit	
Underground		breaker. He intended to check the	
Unucigi vunu		insulated resistance of the internal	
		parts connected to the incoming	
		side of the circuit breaker. He then	
		inadvertently turned the isolator off	
		and was electrocuted.	
24/07/1979	Gas Ignition	Mixture of air and methane had	Change ventilation plan and
Australia	Explosion	built up and was ignited by a flame	don't perform maintenance
New South Wales	L	travelling in bye the flame line	while mine is operational.
Coal		from auxiliary fan site. Electrician	
Underground		doing maintenance on fan caused	
		the spark.	
14/03/1979	Electrocution	Electrocuted while standing on a	
Australia		screen support which had become	
New South Wales		alive when launder cut a welding	
Non-Coal		lead.	
Open-Cut			
1/02/1979	Electrocution	Electrocuted while pulling	
Australia		extension cables apart and came	
New South Wales		into contact with live wires.	
Non-Coal			
Open-Cut			
1977	Electrocution	Surface Electrical accident	
Australia			
New South Wales			
Coal			
Open-Cut			
1977	Electrocution	Attempted to adjust energized	
Australia		11kV circuit breaker	
New South Wales			
Coal			
Underground			
1977	Electrocution	Touched the live end of an 11kV	
Australia		cable which had not been properly	
New South Wales		isolated	
Coal Underground			
Underground	1		

21/06/1976	Electrocution	Electrocuted while preparing a	
Australia		power cleaner ready to pressure	
Queensland		clean working area.	
Non-Coal			
Open-Cut			
1976	Electrocution	Trying to trace a fault in a high	
United Kingdom		voltage contact starter failed to	
Coal		switch off at its integral isolator	
Underground		before opening the hinged door on	
		the contact chamber and received a	
		fatal shock when he touched 3.3kV	
		fuses. The isolator feature was	
		inoperative due to design weakness	
		and inadequate maintenance.	
26/02/1975	Electrocution	Experienced electrician received	
New Zealand	Lieculocution	fatal shock when working on the	
Non-Coal		connecting box supplying gantry	
Open-Cut		crane.	
1975	Electrocution	Was electrocuted while working on	
Australia		an electrical load centre without	
New South Wales		isolating. He touched the live	
Coal		terminals.	
Open-Cut			
27/03/1974	Electrocution	Fatally injured (electrocution)	
Australia		when the jib strut of a crane came	
Queensland		into contact with the conductors of	
Coal		an 11kV power transmission line.	
Open-Cut			
23/02/1973	Electrocution	Fatally injured (electrocution)	
Australia		when the fingers of his left hand	
Queensland		came into contact with the live	
Coal		terminals of an isolating switch.	
Underground			
29/12/1971	Electrocution	Electrocuted while working at rear	
Australia	Littletaotation	of a 415 volt switchboard on a	
Queensland		dredge.	
Non-Coal		ureuge.	
Open-Cut			
22/04/1971	Electrocution	While trying to gain access to a	
New Zealand	Licenocution	transformer on a power pole using	
Non-Coal		too short of a ladder to pull the	
Open-Cut 1970	Electrocution	fuses and was electrocuted	
	Electrocution	Came into contact with live	
Australia Now South Wolog		distribution busbars on a surface,	
New South Wales		12 yard, electric shovel	
Coal			
Open-Cut	<b>F1</b>		
1969	Electrocution	Electrocuted while removing a	
Australia		415V DC distribution cable from a	
New South Wales		gate-end box. As the deceased	
Coal		pulled the plug a pin came away	
Underground		and the deceased grasped the pin.	
		The victim had isolated, but the re-	
		energized the circuit in the tea	
		room himself.	
8/09/1966	Electrocution	Found dead near the cable entry	
Australia		gland of a loading machine, when	
New South Wales		the chisel edge of some multigrips	
Coal		had penetrated a power core cable.	
Underground			
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1966	Electrocution	Was electrocuted when a mobile	
Australia		crane whose lead was steadying	
New South Wales		came into contact with overhead	
Non-Coal		electric cables.	
Underground			
1965	Electrocution	Electrocuted when he came into	
Australia		contact with 415V terminals. Was	
New South Wales		replacing thermal overload	
Coal		switches and didn't isolate the area.	
Open-Cut		surferes and drait i solute the urea.	
1964	Electrocution	Was found slumped in position	
Australia	Licenseution	alongside the open door of a switch	
New South Wales		cubicle in a surface sub-station. He	
Coal		had burns on his hands and had	
Open-Cut		somehow come into contact with	
Spen-Out		live switchgear within cubicle.	
1964	Electrocution	In connecting 220/415V	
1964 Australia	Electrocution		
Austrana New South Wales		transformer in parallel with another	
		transformer, assumed the power	
Coal		was off and connected the pins into	
Underground		a live transformer and was	
4/00/10/2		electrocuted.	
4/09/1963	Electrocution	Fatally injured when he was	
Australia		electrocuted whilst using a power	
Queensland		boring machine.	
Coal			
Underground			
1963	Electrocution	Electrocuted when a pump they	
Australia		were carrying became electrified	
New South Wales		when it touched a loose lead from	
Non-Coal		a live electric conductor	
Open-Cut			
1962	Electrocution	Fatally injured when he was	
Australia		electrocuted whilst working on the	
Queensland		installation of a transformer station	
Coal		at the washing plant.	
Open-Cut			
1962	Electrocution	Electrocuted when he was raising	
Australia		mast on seismic drill and it came	
New South Wales		into contact with high voltage	
Non-Coal		wires	
Open-Cut			
1962	Electrocution	Battery type shuttle car was being	
Australia		driven outby from underground	
New South Wales		charging station when the car	
Coal		struck and damaged a 415V cable	
Underground		and the driver was electrocuted.	
1955	Electrocution	Miner accidentally cut 415V cable,	
Australia		while trying to fire a shot with a	
New South Wales		non-isolated area, he accidentally	
Coal		used the cable to provide himself	
Underground		leverage to climb on power box	
		and energized the circuit	
1955	Electrocution	Two 415V cables into pump were	
Australia		malfunctioning and caused the	
New South Wales		pump housing to by energized,	
Coal		which killed miner when he	
Underground		touched the pump.	
Chuci Si vullu		touched the pump.	
	1		

<u>8/02/1020</u>	Electro estis	Estally in increased and the set	
8/02/1939	Electrocution	Fatally injured when he came into	
Australia Queensland		contact with an electric current when switching off the current at	
Coal			
		the gate end box.	
Underground			
Gravity Isolation	0.1	<b>XX 74 '1 1 ' 1 1</b>	
5/04/2007	Other	While replacing tyres on a wheel	Ensure there are safe policies
United States		loader the two supporting	for repairing equipment and
Non-Coal		hydraulic jacks failed and he was	do not perform until the
Open-Cut		crushed under the loader.	hazardous motion is blocked.
2/02/2007	Other	Fatally injured when the left axle	
United States		of a haul truck he was repairing	
Non-Coal		fell on him. The truck was not	
Open-Cut		blocked against motion and was	
		left also on a slight grade to roll	
		backwards.	
21/09/2006	Other	Was pinned under a boom	
United States		extension and clamshell bucket	
Non-Coal		extension. He was cutting steel	
Open-Cut		bracing plates free and when the	
		final one came free the boom fell	
		on him.	
12/06/2006	Other	Operator was fatally injured while	Risk assessment for safe
United States		trying to repair a hydraulic line on	maintenance practices and
Non-Coal		a front end loader without any	following correct operating
Open-Cut		training or chocks to keep the	procedures. Also receive
		boom up. It fell and crushed him	training to perform
		against the frame.	maintenance.
5/01/2006	Other	A mechanic suffered fatal injuries	Follow correct procedures to
United States		when a front end loader which was	block front end loader and
Non-Coal		not jacked up securely, rolled and	Look and analyse hazardous
Open-Cut		fell on the mechanic, pinning him	tasks
		and causing blunt force trauma.	
15/07/2005	Contact with Moving	Fatally injured when the fixed jaw	
Australia	or Rotating Plant	liner of a primary crusher fell on	
Victoria	(Guarding/Access to	him. He was in the crusher trying	
Non-Coal	Danger Zone)	to leverage a jammed fixed jaw	
Open-Cut		liner while applying hydraulic	
		pressure at the same time. The	
		liner was not supported and	
		dropped off the mounts fatally	
		injuring the maintenance	
		contractor.	
1/06/2005	Contact with Moving	Victim was pulled into the pick	Workforce retrained in
United States	or Rotating Plant	breaker sustaining injuries which	removing power and blocking
Coal	(Guarding/Access to	resulted in his death.	movement before undertaking
Underground	Danger Zone)		repairs on feeder.
28/04/2005	Contact with Moving	Victim was crushed between a set	Lock out and tag out electrical
United States	or Rotating Plant	of ventilation air lock doors as they	equipment while preforming
Non-Coal	(Guarding/Access to	closed. He was working on their	maintenance. Conduct risk
Underground	Danger Zone)	control switches.	assessment and block motion.
21/04/2005	Contact with Moving	Technician was standing in	New written procedures to be
United States	or Rotating Plant	articulating section of front end	adhered to when entering the
Coal	(Guarding/Access to	loader repairing it with engine on,	articulating area of a loader.
Open-Cut	Danger Zone)	when it articulated and crushed him.	
5/12/2004	Other	While changing bolts on the bucket	Perform risk assessments prior
United States		of a loading shovel, the weld on a	to any maintenance and
Non-Coal		blocker failed and the bucket	implement procedures for
Open-Cut		crushed them.	blockage of motion.
open-cui	1		orockuze or motion.

16/09/2004 United States Non-Coal Open-Cut 24/07/2004 United States Non-Coal Open-Cut	Other Other	Victim fatally injured when going under a forklift to change a starter motor when the machine fell on him. The lift assembly of the loader the victim was operating pinned him against the cab of the machine while lifting bucket to replace fallen pin.	Implement risk assessment and hazard identification training; follow manufacturers' guidelines for performing maintenance tasks. Train operators in equipment repair procedures, train operators to follow operator manual procedures.
1/06/2004 United States Non-Coal Open-Cut	Drowning	Dragline operator didn't lock the crawler track before he started digging and the dragline rolled into 20 foot deep pit.	Have procedures so that all users are adequately trained in equipment use, and implement them in training programs.
23/06/2003 United States Coal Open-Cut 16/04/2003	Other Contact with Moving	Mechanic was operating on excavator when loader moved and he was crushed between loader holding it steady and excavator. An oiler was fatally injured	All raised equipment to be blocked against motion and train staff in blocking procedures. Conduct risk assessments to
United States Non-Coal Open-Cut	or Rotating Plant (Guarding/Access to Danger Zone)	attempting to free a hang up when he apparently contacted the moving crusher components causing multiple fractures to his leg. The victim was hospitalized and died on April 20, 2003.	identify hazards and process involved in protecting personnel. Isolate equipment according to standards prior to commencing work. Ensure the proper equipment is provided and personnel are trained in safe work procedures.
29/03/2003 United States Non-Coal Open-Cut	Uncontrolled Release of Energy	A supervisor was fatally injured assisting with preparing a jaw crusher to remove a shim plate. He was positioned on conveyor underneath crusher while two co- workers removed nuts holding clamp bolts. When nuts were removed, the block fell and struck him.	Conduct risk assessments to identify hazards prior to work commencing. Develop safe work procedures that require personnel to be safe from hazards. Train personnel in safe work procedures. Isolate equipment and components prior to work commencing.
28/12/2002 United States Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	Victim was pinned between inside wall of truck bed and basket of hydraulic excavator while welding a steel plate into truck.	Increased safety and task training for staff present in the mine.
21/12/2002 United States Non-Coal Open-Cut	Asphyxiation	A 23 year-old utility person with 5 years mining experience was fatally injured at a surface cement operation. The victim was fatally injured when he climbed into a silo to unplug a blockage and was engulfed by material.	A safety harness and lifeline should be used when entering silos, hoppers or surge piles. Safe access be provided and maintained to all working places. Silos should be equipped with mechanical devices to handle material.
23/09/2002 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A plant operator was fatally injured as he was removing fines from around a tail pulley and became caught between belt and pulley. Pulley was covered in spillage and as he removed it the conveyor belt moved backward and caught the victim's arm.	Manufacturer's recommendations to be followed and miners to be trained in tasks prior to work commencing. Risk assessment to be carried out prior to work. Ensure proper tools are provided and used to complete tasks. Isolate equipment prior to work commencing.

10/07/2002	Other	Driver was attempting to free a	Block motion to equipment
United States Coal Open-Cut		locked axle, and while using a pry- bar to free this, the truck moved, crushing him.	before performing maintenance on it, initiate procedures for truck maintenance and give training on hazard recognition.
20/06/2002 United States Coal Underground	Asphyxiation	Utility man was lubricating bearings when bunker cars moved as victim placed himself in a pinch point, crushing him.	Do not perform maintenance without motion blockage and train staff in hazard identification.
30/03/2002 United States Non-Coal Open-Cut	Other	A process operator was helping clear a blockage inside a cement clinker drag conveyor located in a tunnel. An access door for enclosed conveyor was opened and hot clinker spilled into water generating a steam outburst that burned victim who later died.	A protocol that addresses potential hazards to be developed prior to beginning major tasks. Special protective clothing and equipment be provided and worn to protect persons from environmental hazards. Water not to be permitted near hot materials.
28/01/2002 United States Coal Underground	Pressure Vessel Explosion	A fine coal operator was fatally injured when a pump exploded due to steam build up within pump. Almost all liquids were drained from tank causing fines to solidify, preventing flow through pump. Pump, a pressure vessel, exploded and cover struck victim.	Provide pump housing with thermal sensing device that will de-energize circuit. Provide pump with remotely located controls. Never de- energize an overheated pump from close proximity. Install devices to prohibit back-flow of water into overheated pumps.
27/07/2001 United States Coal Underground	Unintended Operation of Equipment	A truck driver received severe injuries while conducting maintenance on his truck. He had put a metal stand under tray and then raised body in order to lift truck off ground. While under truck it rolled backwards pinning victim who later died from injuries.	Turn engine off, place transmission in gear, set park brake and always make sure equipment is securely blocked against motion, before performing repair or maintenance work. Don't depend on hydraulic systems to hold mobile equipment stationary.
5/05/2001 United States Non-Coal Open-Cut	Unintended Operation of Equipment	A mechanic was fatally injured performing maintenance on a front wheel of a loader. He was moving hydraulics to access wheel by extending boom to full. He then disconnected the hydraulic line allowing boom to fall and pin him against ground.	Maintenance should not be performed unless the power is off and the machinery components are blocked against motion. Manufacturers' service guidelines should be consulted and followed.
27/12/2000 United States Coal Open-Cut	Uncontrolled Release of Energy	A preparation-plant foreman was fatally injured attempting to free ice from a pipe line. After cutting pipe and calling operator to start pumps to flush system, ice again fouled. Attempting to break ice, pipe exploded and either ice or pipe struck victim.	Secure from movement the pressure side of pipes and hoses being flushed or cleared. Open ends of pipes to be positioned so that material being flushed won't be obstructed. All persons should move a safe distance from pipes being flushed.

19/12/2000 United States Coal Open-Cut 20/05/2000 United States Non-Coal Open-Cut	Other Drowning	<ul> <li>A truck driver was fatally injured preparing to dump his load along side another truck in process of dumping a load. Coal in other truck was frozen and wouldn't discharge when bed was raised. As trailer reached maximum height it fell crushing cab of truck.</li> <li>A 48-year-old dredge operator with 2 years mining experience drowned at a sand and gravel operation. The victim was in a work boat attempting to dislodge a rock from the cutter head when he fell into the water. He was not wearing a life jacket.</li> </ul>	Trucks dumping side by side should stay a distance of at least the height of trailer apart. Trucks dumping side by side to be positioned so that drivers can see each other. If possible, agents to be used to keep materials from freezing in bed of haul truck. Life jackets should be worn where there is a danger from falling into water.
15/03/2000 Australia Queensland Coal Open-Cut	Uncontrolled Release of Energy	Fatally injured by truck tray body that was being repaired. The tray fell on him whilst he was attempting to insert a pin into the under side of the tray to attach a support structure required to for movement of the tray whilst detached from the truck.	
21/07/1999 United States Non-Coal Underground	Unintended Operation of Equipment	A mechanic was fatally injured at a gold mine. He was in the process of making repairs on a front-end loader when the bucket fell, pinning him between the buckets lift arm and the loader frame. The bucket was not blocked.	Maintenance should not be performed on equipment unless components are blocked and secured against hazardous motion.
7/07/1999 United States Non-Coal Open-Cut	Uncontrolled Release of Energy	A contract employee was fatally injured working inside engine compartment of a loader. He removed a safety latch and mechanism that facilitated raising and lowering the hood. Victim fell against one of tether straps holding hood up, pullng it down on him.	All work areas should be cleared of trip and fall hazards prior to the commencement of work in the area. Maintenance should not be performed on equipment unless components are blocked and secured against hazardous motion.
1/02/1999 United States Non-Coal Open-Cut	Other	A maintenance worker was fatally injured dismantling a section of crane boom preparatory to adding a section. Boom was lowered without being secured or supported to remove section. He had removed 2 of 4 pins when boom collapsed, crushing him.	Maintenance not to be performed unless components are blocked against movement. Manufacturer's guidelines for adding boom sections should be consulted and followed. Mine operators should plan all tasks to eliminate exposure to possible hazards.
21/08/1998 United States Non-Coal Open-Cut	Asphyxiation	A labourer was inside a rail hopper car using a shovel to dislodge material when he fell from the rope ladder he had been working from and became engulfed in material. Victim was wearing a safety belt and lifeline but line was too long to afford protection	Lifelines to be of appropriate length to provide protection and be tended by a colleague in dangerous areas so line is taught. Where clogging may occur mechanical devices to be fitted to bins and hoppers to avoid the possibility of becoming engulfed in material.

1/08/1998	Uncontrolled	A mechanic was fatally injured	Maintenance should not be
United States	Release of Energy	performing maintenance on the	performed unless the power is
Non-Coal	Release of Energy	hydraulic system of a front-end	off and machinery components
Open-Cut		loader when a sudden release of	are blocked against hazardous
open eur		hydraulic pressure caused the	motion.
		bucket support arm to fall, pinning	motion
		him against the loader frame.	
29/01/1998	Uncontrolled	A labourer was using a hammer to	Equipment to be isolated
United States	Release of Energy	dislodge a rock in a crusher	before performing
Non-Coal		standing on a ladder when hammer	maintenance. Workers should
Open-Cut		was ejected by moving crusher	wear safety belts and lines
		jaw. Handle struck victim in head	when a fall hazard exists. Safe
		and he fell approximately 12ft to ground. He received severe head	access to working areas to be provided. Tool repairs or
		injuries and died 8 days later.	modifications to be in
		injuries and died 8 days later.	accordance with the
			manufacturers'
			recommendations.
24/07/1997	Uncontrolled	A mechanic was fatally injured	
United States	Release of Energy	while assisting 2 other mechanics	
Non-Coal		to replace brake shoes on a rail	
Open-Cut		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.	
20/06/1997	Uncontrolled	A loader operator was fatally	All hand held equipment
United States	Release of Energy	injured carrying out maintenance	should be maintained tested
Non-Coal	Release of Energy	on a loader. A fender on the loader	and inspected regularly in
Open-Cut		was raised to remove and install a	accordance with
•		wheel with a boom truck. Operator	manufacturers' specifications.
		was attempting to align wheel, the	When working in hazardous
		support gave way allowing fender	work places PPE should
		to strike operator.	always be worn, i.e. Hard Hat.
13/06/1997	Unintended	A mechanic was repairing a lift	
United States Coal	Operation of Equipment	jack of a bucket on a loader. A steel beam was placed to support	
Underground	Equipment	one of bucket arms. While	
Undergröund		mechanic was working on lift jack,	
		beam split allowing bucket to fall.	
		Mechanic attempted to escape	
		when he was hit by bucket.	
21/04/1997	Contact with Moving	A contractor was fatally injured	
<b>United States</b>	or Rotating Plant	repairing a loader bucket. He was	
Non-Coal	(Guarding/Access to	working off a step ladder placed	
Open-Cut	Danger Zone)	between the loader bucket and the	
		loader frame. He apparently	
		disconnected the hydraulic controls which allowed the pivot arm to fall	
		and strike him.	
6/02/1997	Other	A truck driver and crane operator	
United States		were dismantling a boom of a	
Coal		crane in preparation to move to	
Open-Cut		workshop. Boom was lowered onto	
		a block and truck driver began	
		removing bolts. After removing	
		second, boom separated and fell,	
		fatally injuring truck driver.	

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17/12/1996 Australia New South Wales Unknown Open-Cut	Uncontrolled Release of Energy	A maintenance assistant received fatal injuries while undertaking repair and water testing of an oxygen lance. A non-standard leak test was attempted without allowing for air release and a coupling came off under pressure and struck him.	
9/03/1996 United States Non-Coal Underground	Other	A contractor core driller died from injuries he sustained in an accident while trying to free drill rods that were stuck in the hole they were drilling. A 24-inch pipe wrench they were using to free drill rods slipped and struck victim in head and arm.	Only suitable equipment should be used when working on machinery.
19/01/1996 United States Coal Underground	Uncontrolled Release of Energy	While repairing a universal drive shaft assembly for gathering arms on a continuous miner a foreman was crushed when ripper head fell on him. Prior to work, miner was set on blocks, however during repair blocks failed and ripper head fell on victim.	Isolate equipment in accordance with industry standards prior to commencing work.
23/12/1995 United States Coal Underground	Unintended Operation of Equipment	A continuous miner operator was attempting to tighten a hydraulic fitting on a boom elevator jack. The miner was under the elevated boom when the boom fell, resulting in fatal crushing injuries. The boom had not been blocked against motion.	Before maintenance is carried out on continuous miner be sure to correctly isolate and block machine up to eliminate the possibility of accident. Regular maintenance and inspections should be carried out on equipment prior to and during its working life.
21/08/1995 United States Non-Coal Underground	Uncontrolled Release of Energy	A miner was fatally injured when he and a colleague were trying to free a hang-up in a chute. After several blasts and banging the gate were unsuccessful, they walked towards the chute when the hang- up fell, engulfing one of the miners.	Structural equipment including chutes should be designed to stand working condition loads.
22/05/1995 United States Non-Coal Open-Cut	Unintended Operation of Equipment	While in process of repairing exhaust of a service truck, a mechanic was fatally injured. Truck was sitting on level grade in first gear and wheels not blocked. Starter was shorted by a heat shroud and started engine and truck ran over employee.	Prior to work commencing on machinery and equipment, isolation procedures should be carried out. Additional chocking/blocking may be necessary to restrict movement of equipment.

19/12/1991	Uncontrolled	He was trying to clear a blockage	
Australia	Release of Energy	in the ROM 1 using a high	
Queensland		pressure water hose on top of the	
Coal		ROM whilst another entered the	
Open-Cut		chute to remove pieces of coal and	
Spen out		rock by hand. It appears the	
		deceased arranged for water to be	
		applied to the hopper bin via the	
		spray bars on the water truck in	
		lieu of the water truck fire hose.	
		He then proceeded down the stairs	
		to the top of the apron feeder	
		cover. A short time later there was	
		an outrush of coal and water. It	
		was realised that the deceased had	
		disappeared from the apron feeder.	
		After a search his body was	
10/12/1000	The sectors 11 - 1	recovered from the conveyor.	
19/12/1990	Uncontrolled	Fatally injured when attempting to	
Australia	Release of Energy	clear a ROM feeder using water,	
Queensland		when the coal fluidised, burying	
Coal		the victim.	
Open-Cut			
11/06/1986	Contact with Moving	Was assisting with the unloading	
Australia	or Rotating Plant	of a 60 tonne dump truck from a	
Western Australia	(Guarding/Access to	float. The truck fell off the jacks	
Non-Coal	Danger Zone)	and his head was caught between	
Underground	Sunger Lone)	the front tyre and a block of wood.	
1985	Contact with Moving	Was crushed and killed when he	
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United Kingdom	or Rotating Plant	entered the space between the	
Non-Coal	(Guarding/Access to	hopper section and the rear end of	
Open-Cut	Danger Zone)	the body. The hydraulic system	
		failed and allowed the raised	
		hopper to fall without warning	
1/06/1981	Contact with Moving	Was run over by a tractor he was	
Australia	or Rotating Plant	servicing as he was checking the	
Western Australia	(Guarding/Access to	gearbox, he knocked it into gear	
Non-Coal	Danger Zone)	and the wheel ran over him.	
Open-Cut			
12/06/1980	Asphyxiation	Killed when he fell into an	
New Zealand	1 spiry station	impactor at the crushing plant	
New Zealand Non-Coal			
		when trying to free a blockage	
Open-Cut	01	while unit was in motion	
1978	Other	A mobile crane jib section fell onto	
United Kingdom		a man during dismantling	
Non-Coal			
Open-Cut			
1977	Contact with Moving	Was changing picks and was killed	
United Kingdom	or Rotating Plant	when the haulage chain broke and	
Coal	(Guarding/Access to	the shearer moved unexpectedly	
Underground	Danger Zone)		
1976	Contact with Moving	Was killed while carrying out	
	or Rotating Plant	repairs on a cutter loader when a	
United Kingdom			
Coal	(Guarding/Access to	timber prop used to support the	
Open-Cut	Danger Zone)	boom fell out and he was crushed	
		when the boom collapsed.	
1976	Contact with Moving	Died from crush injuries when he	
United Kingdom	or Rotating Plant	inadvertently operated the tipping	
Non-Coal	(Guarding/Access to	lever mechanism while refitting the	
Open-Cut	Danger Zone)	clutch housing of a vehicle	
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1976     Other     Was dismanting the jib of a large capacity crane when he was crushed when the jib collapsed because the socuring pins were knocked out       Non-Coal     Other     Assisting in the renoval of an engine weighing 4.5 tone from a dumptruck when he rawled underneath to uncouple the steering hoses while the engine weighing 4.5 tone from a dimptruck when he rawled underneath to uncouple the steering hoses while the engine weigh and streng hoses while the engine weigh and the hoses released, the engine weigh and the hoses released, the engine weigh and the hoses hoses weigh and the hoses weigh and the hoses hoses weigh and the hose weigh and the hose hoses hoses weigh and the hose weigh and the hose hoses hose hoses hoses weigh and the hose hoses hose			1	
Non-Coal         crushed when the jib collapsed because the securing pins were knocked out           1976         Other         Assisting in the removal of an engine weighing 4.5 tonne from a dumptruck when he crawled underneath to uncouple the steering hoses while the engine was suspended. When the hoses released, the engine swung and struck his head.           1961         Contact with Moving Wew Zealand Unknown         Contact with Moving Guarding/Access to Danger Zone)         Was killed when the loaded tray of the truck fell on him while be appears to have been examining the hoist which had brock.           1955         Contact with Moving Open-Cut         Contact with Moving Guarding/Access to Danger Zone)         Was killed when the loaded tray of the truck fell on him while be appears to have been examining the hoist which had brock.           1955         Contact with Moving Guarding/Access to Danger Zone)         Repairs were heing effected on the hydraulic system of a mobile loader when the deceased was crushed between the body and born of the loader           1955         Contact with Moving Guarding/Access to Danger Zone)         Repairs were heing effected on the hydraulic system of a mobile loader when the deceased was crushed between the body and born of the loader           1957         Contact with Moving Guarding/Access to Danger Zone)         Fell 39 feet from an elevated conveyor bit roller. It carried the miner 49 feet before he was striking him in the face.           1955         Contract with Moving Guarding/Access to Danger Zone)         Fell 39 feet from an elevated conveyor bit roller. It carried the miner 49 feet before he was thero	1976	Other	Was dismantling the jib of a large	
Open-Cut         because the securing pins were knocked out         Image: Constant with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Other         Assisting in the removal of an crigine weighing 4.5 tome from a dumptruck when he crawled underneath to uncouple the steering hoses while the engine was suspended. When the hoses released, the engine swung and struck his head.           1961         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Was hit in the chest by the bucket of a mechanical shovel while assisting repairs           1103/1958         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Was kit int whe her samining the hoist which had broke.           1955         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Was kit me the chest by the uncel and chain assembly or Rotating Plant (Guarding/Access to Danger Zone)           1955         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Repairs were being effected on the hydraulic system of a mobile boom of the loader           1955         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Repairs were being effected on the hydraulic field injection at 305 bar, striking him in the face.           2607/2006         Mastralia Reclase of Energy         While collecting samples from a hydraulic field injection at 305 bar, striking him in the face.         De-energize and lock undraground           12/11/2007         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)         Fell 39 feet from an eleva	United Kingdom		capacity crane when he was	
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Open-Cut         Danger Zone)         struck him.         communication and signal when you are getting onto or				
when you are getting onto or			-	
	Open-Cut	Danger Zone)	struck him.	
off dragline.				
				off dragline.

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24/10/2007	Other	Assistant Superintendent was	
United States		struck in the head with a steel bar	
Non-Coal		while trying to free a wedged piece	
Open-Cut		of steel from a crusher.	
4/08/2007	Uncontrolled release	While installing a new torque	Lock and tag equipment prior
United States	of energy	shaft, it became stuck and the	to maintenance, maintain safe
Coal		motor was run momentarily which	distance from moving parts
Underground		caused the shaft to strike the	and follow manufacturers
		foreman in the face.	manual.
13/07/2007	Contact with Moving	Crushed by Conveyor hopper	
New Zealand	or Rotating Plant	while carrying out maintenance	
Non-Coal	(Guarding/Access to		
Open-Cut	Danger Zone)		D: 1
4/10/2006	Other	A dragline operator was fatally	Risk assessment to identify
United States		injured when the operators' cab of	possible hazards, especially
Non-Coal		a dragline he and two other miners	when undertaking
Open-Cut		were removing fell and pinned	maintenance.
		him. It was being removed for	
21/04/2006	I Inintar de d	maintenance.	Development and
21/04/2006 United States	Unintended	Electrician was checking hydraulic	Development and
United States Coal	Operation of Equipment	pressure on tram while outside operator compartment and the tram	implementation of a maintenance plan hen
Underground	Equipment	was caused to move, trapping him	operating on equipment.
Ondergröund		against a belt Conveyor.	operating on equipment.
11/04/2006	Other	Production worker was killed when	Place pallets away from
United States	Other	a skid steer loader backed over	roadside for miners to work on
Non-Coal		him. He was tightening field fence	them. Risk assessment
Open-Cut		wire with pliers securing stone to a	conduction before hazardous
open out		pallet.	tasks.
		punct	
24/08/2004	Unintended	Miner backed loader under chute	Train employees in equipment
United States	Operation of	and went out to operate controls	safe operating procedures,
Non-Coal	Equipment	when his loader rolled and pinned	check equipment for faults
Underground	1 1	him against the wall.	regularly and train workers in
0			parking procedures.
1/05/2004	Contact with Moving	Fitter died after being struck in the	Bleed air pressure from the
Australia	or Rotating Plant	head by a splitter gate in a transfer	system before attempting to
Western Australia	(Guarding/Access to	chute in a processing facility.	clear a chute blockage.
Non-Coal	Danger Zone)		
Open-Cut			
24/03/2004	Asphyxiation	Clothing became entangled in	Manufacturers' warnings
United States		rotating drill steel, victim tried to	should be followed during
Non-Coal		manually thread the drill steel onto	drill operation, suitable
Open-Cut		a rotating collar and striker bar	clothing should also be work
		with the drill mast in the vertical	when operating equipment.
		drill position.	
23/11/2003	Uncontrolled	A company vice president was	Isolate equipment before
United States	Release of Energy	fatally injured at a crushed stone	performing work. Identify
Non-Coal		operation. The victim was using a	possible hazards associated
		operation. The victim was using a steel bar to dislodge a blockage in	possible hazards associated with work to be performed
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar	possible hazards associated with work to be performed along with methods to
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher	possible hazards associated with work to be performed along with methods to properly protect persons.
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be propelled and strike the victim's	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use proper tools and equipment for
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be propelled and strike the victim's	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be propelled and strike the victim's	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use proper tools and equipment for
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be propelled and strike the victim's	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use proper tools and equipment for
Non-Coal		operation. The victim was using a steel bar to dislodge a blockage in an impact crusher. The bar contacted a moving crusher component causing it to be propelled and strike the victim's	possible hazards associated with work to be performed along with methods to properly protect persons. Discuss work procedures before beginning work. Use proper tools and equipment for

14/06/2003 United States Non-Coal Open-Cut 21/12/2002 United States Non-Coal Open-Cut	Uncontrolled Release of Energy Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A repair crew foreman was fatally injured at a sand and gravel operation. The victim was positioning a wedge bar to secure the upper liner plate in a stationary jaw crusher. Apparently the liner shifted and fell, striking the victim. A loader operator was fatally injured in the process of draining the water from the log washer at the end of the shift. Victim climbed inside machine to remove debris and was crushed by the paddles when a third employee inadvertently started machine.	Conduct risk assessments identifying hazards and personnel safety. Ensure components and equipment are blocked against hazardous movement. All personnel to be positioned safely at all times. PPE to worn at all times and employees trained. Equipment should be isolated prior to work commencing. Warning devices should be fitted to equipment to inform of starting and moving operations. Companies should develop and implement procedures that address possible hazards for maintenance tasks.
13/12/2002 United States Coal Underground 12/06/2002 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone) Uncontrolled Release of Energy	Victim contacted fast feed drill boom lever causing the drill to rise rapidly and trapping him between the drill and the canopy roof. A maintenance worker was fatally injured at an alumina operation. The victim was drilling out scale that had accumulated inside heater tank pipes. The drill motor, detached from the gear box, fell from the drill mast and struck the victim.	Establish procedures stipulating regular checks and maintenance of equipment. Ensure checks are conducted, defects fixed prior to operation. Ensure component fasteners meet standards. Provide extra security for constant vibration components.
26/04/2002 United States Coal Open-Cut 2/04/2002 New Zealand	Unintended Operation of Equipment Contact with Moving or Rotating Plant	A mechanic/welder was fatally injured fuelling a bulldozer in pit of a surface coal mine. While fuelling bulldozer, victim's service truck began to roll away. Victim ran after truck and jumped on, however slipped off and was run over. Victim was changing drilling rods on a drilling rig when his clothing	Don't leave mobile equipment unattended unless brakes are set. When mobile equipment is left unattended turn wheels into bank or block them. Emphasize proper methods of blocking wheels in task training. Perform tasks such as refuelling on level ground.
Non-Coal Open-Cut 13/02/2002 United States Non-Coal Open-Cut	(Guarding/Access to Danger Zone) Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	became entangled in the revolving rods. Died at the scene from injuries received. A carpenter was fatally injured building a new processing plant. Victim was secured by a safety belt and line taking measurements on outside edge of structure. An elevator was moved and caught the victim between the conveyance and the structural steel.	Hazardous work places should be sign posted and contain warnings. Prior to commencing work all equipment must be isolated. Warnings should be sounded prior to machine operation. Risk assessments should be completed for all tasks.

17/12/2001	Unintended	A maintenance mechanic was	Mobile equipment should not
United States Non-Coal Open-Cut	Operation of Equipment	fatally injured at a surface crushed stone operation. After parking a service truck, the victim walked between the truck and a generator trailer. The truck rolled forward and pinned the victim against the trailer.	be left unattended unless the controls are placed in the park position and the brake is set. When parked on a grade, the wheels of mobile equipment should be either chocked or turned into a bank.
27/08/2001 Australia Western Australia Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A supervisor noticed that manufactured blocks were deformed an opened a locked gate to investigate. In trying to rectify the problem he became caught in the internal mechanism and was found some time later partially in the unit.	
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.
4/06/2001 United States Non-Coal Underground	Unintended Operation of Equipment	A miner first class, was fatally injured at an underground platinum mine. The victim had parked his load-haul-dump tractor (LHD) and was loading steel into the bucket by hand when the LHD drifted forward and struck him.	Mobile equipment should not be left unattended unless the controls are in the park position and the parking brake is set. When mobile equipment is parked, the bucket or blade should be lowered to the ground.
12/04/2001 United States Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A continuous miner operator was crushed between tail boom of miner and rib. Victim had trammed machine to intersection to pull up slack cable. Another miner being trammed into intersection hit ripper head of other miner. Boom swung crushing operator.	Personnel to remain a safe distance from any pinch point areas of continuous miners. Personnel should verify their proposed route of travel is clear when tramming continuous miners. Adequate task training be performed to assure safe operation of equipment
25/04/2000 United States Non-Coal Open-Cut	Unintended Operation of Equipment	A plant supervisor was fatally injured attempting to source an oil leak on a loader. On closing engine cover, operator returned to cab. Without informing operator, victim obtained a torch and crawled under loader. Loader was moved running over victim.	When working near large equipment, persons should make eye contact and communicate their intentions directly to the equipment operator. Wheels should be chocked before persons position themselves underneath mobile equipment.
12/04/2000 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A labourer was fatally injured making adjustments to a new conveyor installation. When aligning the extended grease lines for the bend pulley from inside conveyor frame he became caught in a pinch point when conveyor was started without his knowledge.	Maintenance not to be performed unless equipment is isolated. Visible or audible warnings to be provided before conveyor start-up. Mine operators should take measures to assure all personnel are trained in safe work procedures.

United States Coal Underground	or Rotating Plant (Guarding/Access to Danger Zone)	his clothes became entangled in drill steel. He died in hospital following surgery complications.	rotating steels when wearing gloves which may become tangled.
26/07/1999 United States Coal Open-Cut 29/05/1999	Uncontrolled Release of Energy Contact with Moving	A mechanic was fatally injured working in a manlift basket under a dragline. Dragline boom was lowered and mast supported with I- beam. While attaching strand lines to mast, support structure shifted. Structure hit man basket fatally injuring mechanic.	Both the top and bottom of temporary supporting structures be secured to prevent accidental movement. A thorough examination of support structures be conducted prior to and periodically during any work being done on or around suspended equipment. Ensure you take care around
23/08/1999 Australia New South Wales Coal Underground	Unintended Operation of Equipment	A mechanical tradesman was fatally injured whilst carrying out maintenance tasks to a roof bolting rig attached to a continuous miner. As a result of accidental operation he suffered crush injuries from being caught between rig and superstructure of miner.	Isolation procedures should be reviewed. Managers should address hazard recognition and control skills training.
29/09/1999 United States Non-Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A labourer was fatally injured when he was operating a rubber- tired loader/forklift unit and lost control wedging unit against rib. When he attempted to exit the machine he accidentally lowered the boom pinning himself between boom and frame of machine.	Persons should enter and exit equipment through designated areas. Equipment operators must maintain control of their equipment. Guarding panels be installed to prevent persons from exiting where moving components present a hazard.
9/12/1999 United States Coal Underground	Uncontrolled Release of Energy	A work crew were preparing a mobile crane for transport when a member of team was fatally injured. A member of team had removed pins from a counterweight prior to securing with wire rope. The weight pivoted, crushing another member against crane.	Workers shall stay clear of hoisted loads and avoid pinch points when working on or near moving equipment or machinery. Workers should follow safe work procedures consistent with the design of the equipment when working on or near such equipment.
21/01/2000 United States Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A continuous miner operator was fatally injured when he came in contact with the ripper head of machine. Victim had apparently positioned himself in front of miner to conduct maintenance. The remote control was in operators' possession.	All power circuits and electrical equipment be de- energized before any work is done on equipment. All areas where persons are required to work or travel to be eliminated of hazards. Employees to be positioned safely before energizing equipment.
10/04/2000 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A 40-year-old driller (contractor employee) with 20 years mining experience was fatally injured at a surface gold mine. The victim was adding a drill rod to the drill head when his coat became entangled in the rotating steel.	Rotation to be stopped when manually changing drill rods. Drills to be fitted with automated systems for changing rods, or two persons to be present when rods are changed manually. Loose fitting clothing not to be worn when working around drilling machinery.

3/02/1999 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A shipping operator was fatally injured attempting to remove material from main discharge chute of a conveyor. A mechanical sampler arm that cycled automatically every 5min hadn't been isolated. Sampler arm cycled, he was crushed against the chute wall.	Maintenance not to be performed unless equipment is isolated. Safe access be provided and maintained to all working places. Mine operators should plan all tasks to eliminate exposure to potential hazards.
13/01/1999 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A truck driver was fatally injured when he was crushed by the bottom-dump doors while cleaning out the trailers. A pneumatic valve controlling doors was defective allowing air pressure to randomly activate valve.	Defects on mobile equipment to be corrected prior to equipment being used. Maintenance not to be performed unless machinery components are blocked against movement. Mine operators should take measures to assure that contractors follow safe work practices.
15/08/1998 United States Non-Coal Open-Cut	Unintended Operation of Equipment	A security guard was fatally injured at an open pit mine. The victim had gotten out of his truck, leaving the automatic transmission in reverse gear and the engine running. When he went behind the truck, it began to roll back, running him over.	Before exiting a vehicle, make certain the gear selector is in "Park". Always set the parking brake before leaving the vehicle. If the vehicle is parked on a grade, the wheels should be chocked or turned into a bank to prevent the vehicle from moving.
22/06/1998 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A plant superintendent was fatally injured after he started the pony engine on a bulldozer to start the main engine. He was kneeling on the tracks as he engaged clutch and as engine started, dozer moved in reverse, pulling him between track and framework.	Park brake to be set on unattended equipment. Operators should always verify position of operating controls before starting equipment. Mine operators should retrofit neutral start switches interlocked with pony motor ignition system on older equipment.
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.
30/04/1998 United States Non-Coal Open-Cut	Uncontrolled Release of Energy	A crusher operator was killed at a stone quarry. Whilst standing at opening of crusher trying to break rocks the victim either dropped the hammer or the handle broke causing hammer head to be ejected from the crusher and strike him in the face.	Maintenance of machinery should be performed only after the power is off and the machinery is blocked against movement. Personnel should be trained in safe work procedures.

20/10/1997	Unintended	A leadman was fatally injured	Before commencing work on
United States Non-Coal Open-Cut	Operation of Equipment	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.	equipment or near equipment, the equipment must be appropriately isolated, chocked and or locked out in accordance with isolation procedures.
4/08/1997 Australia New South Wales Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	The victim was found lying over the head drum of a stationary Conveyor belt with his right arm being pulled down between the head drum and the frame supporting the Conveyor and under the axle of the head drum.	
19/07/1997 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A loader operator was fatally injured operating a small loader to clean up around plant. He leaned out of cab to fasten a latch that had come loose, he inadvertently pushed pedal which operates lift boom. Victim was pinned between lift boom and cab.	Equipment should be regularly maintained and inspected in accordance with the manufacturers' specification to ensure safety and fit for purpose. A work needed to be done on equipment should be completed as soon as possible.
23/04/1997 United States Coal Underground	Unintended Operation of Equipment	An electrician was fatally injured repairing water sprays on a section belt feeder. Prior to accident, power cable was severed. Victim was inside feeder fixing water sprays when it unexpectedly started and was pulled into a pick breaker.	All Equipment is to be isolated adequately prior to commencing work.
7/02/1997 United States Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A longwall system operator was fatally injured transporting a ram jack on conveyors. Jack was thought to be jammed in crusher and operator attempted to rectify. He stood on conveyor when it started unexpectedly, he was dragged through crusher.	Before attempting maintenance or work on equipment make sure to isolate it according to industry standards and safe work procedures.
14/01/1997 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A crusher helper was killed at a gold pit when he was caught in the tail pulley of the crusher belt. The guard had been removed, and it appears that the employee was attempting to remove frozen material from the moving belt.	Prior to engaging in work or opening guards on equipment, make sure that the equipment is suitably isolated and locked out according to isolation procedures.
8/01/1997 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A mechanic with approximately 3 years of mining experience was killed at a sand and gravel operation. While performing mechanical repairs on a wash plant blade mill, the mill became energized pulling the victim into it.	Before commencing work on equipment, equipment should be isolated and locked out according to the like procedures. Equipment is to be installed to industry standards and inspected regularly to ensure safety and fit for purpose.

18/12/1996 United States Coal Open-Cut 1/11/1996 United States Coal Underground	Uncontrolled Release of Energy         Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A contract employee was dismantling a coal hauler when he was seriously injured as a bearing fell on his leg. Using a cutting torch, victim removed a bearing from trailer axle. The 10ft long bearing fell, striking the victim. He later died in hospital. A continuous miner operator was fatally injured as he was run over by a shuttle car during a fall of roof. When mining a new pillar block a fall occurred and all	Support or restrict movement of components or equipment that could move in a hazardous way when worked on or near.
24/10/1996 United States Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	workers in area ran outby. Victim was last and when shuttle car was trammed out he was run over. A plant foreman was fatally injured when he became entangled in a conveyor drive unit after it unexpectedly started. Victim and co-workers were fixing a broken drive chain. An inadequate isolation system was used. Victim was standing on belt.	All equipment should be adequately isolated according to industry standards and work procedures prior to work commencing.
8/07/1996 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A mechanic was performing maintenance on a haul truck when he was fatally injured. He finished replacing the injectors and was positioned on the front access ladder adjusting the engine when the truck lunged forward crushing him against the workshop door.	Regular routine maintenance and inspections should be carried out on all equipment in accordance with manufacturers' specifications to ensure safety and fit for purpose. When performing maintenance on machinery that is running, isolate and chock machine.
16/05/1996 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A loader operator was killed whilst trying to clear on engulfed tail pulley. When a foreman went to start conveyor, the operator attempted to clear more material. Conveyor started, and employee was dragged into head pulley where there was an 8" gap.	Prior to work commencing on equipment, the equipment should be suitably isolated and locked out according to management procedures.
1/03/1996 United States Coal Underground	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A roof bolting machine operator was assisting with repairs to a conveyor belt that had broken during shift. While attempting to apply tension to belt by pushing on belt with his hands a miner was pulled into power rollers and received fatal injuries.	
14/02/1996 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A mechanic preparing to repair a hydraulic hose on a drill when he fatally injured as drill ran over him. Drill operator was tramming drill backwards to an area where hose could be repaired. Drill operator turned drill and saw mechanic under drill.	Mobile Equipment should posses reversing alarms.

8/02/1996 United States Coal Open-Cut 14/12/1995 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone) Unintended Operation of Equipment	While conducting maintenance on a surface coal augering machine a miner was fatally injured. Victim was standing on discharge chain conveyor when engine was started. Chain conveyor hadn't been disengaged and victim was pulled into throat of conveyor. A dozer operator was fatally injured at a limestone quarry. It is believed that the employee bumped a lever on the dozer as he was exiting the cab which put the dozer in motion. The dozer ran over the victim and continued over the bench.	Isolate equipment in accordance with industry standards prior to commencing work.
11/12/1995 United States Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	A dredge operator was fatally injured when he was crushed by the bed of a truck. The victim had raised and blocked the bed to remove driveline, but then removed blocks when finished. Bed was moving slowly and victim attempted to tie up driveline.	
21/09/1995 United States Non-Coal Open-Cut	Fall From Heights	A front-end loader operator was fatally injured when he was cleaning out a scrubber. Another worker was using a hammer 20ft above the victim. Sledge hammer slipped out of worker's hand and hit victim on head causing him to fall 14 feet to the ground.	Safety lines and belts should be worn when working in elevated work places
28/04/1995 Australia Western Australia Non-Coal Open-Cut	Contact with Moving or Rotating Plant (Guarding/Access to Danger Zone)	Whilst lubricating a gravity take- up mechanism the victim was caught by his arm and drawn into device. Apparently he was able to pull emergency stop lanyard, stopping conveyor. Found by a workmate in a conscious state, he died on way to District Hospital.	
10/03/1995 United States Non-Coal Open-Cut	Unintended Operation of Equipment	While operating a wood chipping machine, clearing a new construction site a contractor was fatally injured. The victim was attempting to clean out the feed chute and operator's cab when yoke assembly for feed roller rotated down pinning victim.	Adequate isolation of equipment and energy must be completed prior to work on equipment. Regular maintenance and pre-shift inspections should be carried out to rectify any problems and make equipment safe for operation.

29/03/1993 Australia Non-Coal UndergroundFall from HeightsA tradesman replacing worn liner plates in an ore discharge station fell to his death into the shaft when the door accidentally opened. The tradesman was working off a ladder supported against the door of the flask, when a fellow tradesman as working off a ladder supported against the door of the flask, when a fellow tradesman as working off a ladder supported against the door of the flask, when a fellow tradesman as working off a ladder supported against the door of the flask, when a fellow tradesman as working off a ladder supported against the door of the flask, when a fellow tradesman as working off a ladder supported against the door of the flask, when a fellow tradesman as working on brakes of a service truck a fitter at an open cut/underground nickel operation was fatally injured when the truck larched from of truckSite inductions are impo service truck a fitter at an open cut/underground nickel operation was fatally injured when the truck larched from of truckSite inductions are impo service truck a fitter at an open cut/underground nickel operation was fatally injured when the truck lack under from of truckSite inductions are impo service truck as supported by a jack under from of truck23/07/1992 Australia Western Australia Open-CutContact with Moving or Rotating Plant (Guarding/Access to Danger Zone)The deceased, a contract fitter at an open cut gold mine, was servicing the air conditioning on a haul truck. The driver thought the job had been completed and drove off. The deceased was run over by the truck.18/10/1985 Open-CutContact with Moving or Rotating Plant (Guarding/Access to Danger Zone)Was k	ty s
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<b>Open-Cut</b> Danger Zone) machine by a guard, when the	
machine started and he was found	
with his arm wrapped in the tail	
pulley.	
1985     Other     Jump leads were being used by a	
United Kingdom truck driver to start a loader, when	
Non-Coal the operator left the vehicle while	
<b>Open-Cut</b> in reverse gear. When the engine	
started, due to a faulty interlock	
switch, it moved in reverse and	
killed a miner.	
1982   Contact with Moving   Timber had been laid across the	
United Kingdom or Rotating Plant top of the armoured chain	
Coal (Guarding/Access to Conveyor to limit the load and	
Open-Cut Danger Zone) when coal became stuck an	
operator would prod it out with a	
steel bar. The operator however overbalanced and was carried	
beneath the coal heap.	
1982     Contact with Moving     Sustained fatal head injuries when	
United Kingdom     or Rotating Plant     struck by a hydraulically powered	
Coal     Of Kotating Flait     Struck by a hydrautically powered       Coal     (Guarding/Access to     ring beam erector.	
Underground Danger Zone)	

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1982	Contact with Moving	Attempting to clear stone from the	
United Kingdom	or Rotating Plant	delivery hopper of his machine	
Coal	(Guarding/Access to	while the cutting head was in	
Underground	Danger Zone)	motion. He came into contact with	
Olidergi odild	Daliger Zolle)		
		these and was dragged into the	
		machine.	
1982	Contact with Moving	Crushed against a drive roller of a	
United Kingdom	or Rotating Plant	gearhead which he was cleaning	
Coal	(Guarding/Access to	when the slack belt slipped through	
Underground	Danger Zone)	a set of belt clamps and tightened	
Chucigi dunu	Danger Lone)	the roller.	
1982	Contact with Moving		
		Failure to isolate a stationary	
United Kingdom	or Rotating Plant	Conveyor while removing debris	
Coal	(Guarding/Access to	started up. He was found with his	
Underground	Danger Zone)	arm trapped in a nip point.	
1981	Contact with Moving	Fatally injured when falling into an	
New Zealand	or Rotating Plant	impactor at the crushing plant	
Non-Coal	(Guarding/Access to	while trying to free a blockage	
Open-Cut	Danger Zone)	while the unit was in motion	
1981	Other	While attempting to advance the	
	ouici	1 0	
United Kingdom		stationary armoured face	
Coal		Conveyor, on which he was	
Underground		kneeling, by reaching through a	
		350mm gap between the top of the	
		chainless haulage spill plate unit	
		and the underside of the powered	
		support beam. When the ram	
		operated it crushed him against the	
		powered support beam.	
18/09/1980	Contact with Moving	Struck by bent drill, which when	
Australia	or Rotating Plant	rotating in chuck, bent further and	
New South Wales	(Guarding/Access to	struck him.	
Coal	Danger Zone)		
Underground			
10/12/1979	Contact with Moving	While replacing a worn belt	
Australia	or Rotating Plant	Conveyor with the conveyor still	
New South Wales	(Guarding/Access to	operating, the workman received	
Coal	Danger Zone)	serious crush injuries.	
Underground	Danger Lone)	serious crush injuries.	
1979	Contact with Moving	Was killed by the revolving picks	
	or Rotating Plant	of a shearing drum, the power	
United Kingdom			
Coal	(Guarding/Access to	being turned on by an electrician	
Underground	Danger Zone)	unaware of the fitter's presence.	
1979	Contact with Moving	During maintenance work, a	
United Kingdom	or Rotating Plant	shearer was violently propelled	
Coal	(Guarding/Access to	forward by the rotating action of	
Underground	Danger Zone)	the drum on packing material used	
	0 /	to support it. He had applied the	
		power and assumed it not to be in	
		gear.	
1979	Contact with Marine	0	
	Contact with Moving	During manual rotation of the	
United Kingdom	or Rotating Plant	drum of a shearer a miner was	
Coal	(Guarding/Access to	drawn under the drum and killed	
Underground	Danger Zone)	when the shearer operator	
		accidentally applied power to the	
		machine, which was not out of	
		gear.	
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1978	Other	Was having trouble starting his	
United Kingdom		machine, so he had another miner	
Non-Coal		come and start the motor while he	
Open-Cut		made some engine adjustments at	
open out		the rear of the machine. The gear	
		lever was in reverse, and when the	
		engine started he was crushed	
		against the adjacent excavator.	
1977	Contact with Moving	Found on top of a Conveyor	
United Kingdom	or Rotating Plant	adjacent to a large diverting roller	
Coal	(Guarding/Access to	to which his grease gun was	
Underground	Danger Zone)	attached. He had entered the area	
5	Č ,	without locking out Conveyors and	
		isolating them.	
1977	Contact with Moving	Killed by the rotating drum of a	
United Kingdom	or Rotating Plant	shearer, which had been started at	
Coal	(Guarding/Access to	his request and the gear lever had	
Underground	Danger Zone)	been left in gear.	The second for some 1
1977	Fall from Heights	As he was leaving the cage, it	The use of manual
United Kingdom		suddenly ascended and he fell to	immobilization switches on
Coal		his death. The winder operator had	each of the levels where the
Underground		selected automatic wind and that	cage will stop
		combined with the selection of the	
		destination first resulted in an	
		unexpected cage movement.	
1977	Fall of	He was manipulating a bar over the	
United Kingdom	Roof/Sides/Highwall	lowered canopy of a powered	
Coal	Rooi/Blacs/Highwah	support when another workman	
Underground		prematurely reset the canopy of the	
Undergröund		roof.	
1075			
1975	Contact with Moving	Tried to free a blocked chute and	
Australia	or Rotating Plant	plant was not stopped before	
New South Wales	(Guarding/Access to	freeing blockage from chain	
Coal	Danger Zone)	conveyor. He fell in, was buried	
Open-Cut		and suffocated in bins.	
12/10/1972	Contact with Moving	Belt Conveyor on which he was	
New Zealand	or Rotating Plant	standing started; he was	
Coal	(Guarding/Access to	performing repairs to the motor of	
Open-Cut	Danger Zone)	the drive head when he was caught	
open out	2 augur 20110)	in the steel framework.	
1972	Contact with Moving	Found wedged between a tension	
Australia	or Rotating Plant	roller and loop take-up carriage of	
New South Wales		1 1 0	
	(Guarding/Access to	a main trunk Conveyor. He was	
Coal	Danger Zone)	attempting to clean material from	
Underground		the rollers with the belt in motion	
		when he was caught.	
15/07/1971	Contact with Moving	Crushed between screens and the	
New Zealand	or Rotating Plant	side walls when the screens the	
Non-Coal	(Guarding/Access to	deceased was welding started to	
Open-Cut	Danger Zone)	move due to activation from	
		another panel	
1971	Other	Struck on the chest by a continuous	
Australia		miner cable which apparently	
New South Wales		whiplashed as he was about to	
Coal		handle it.	
Underground			
Chucigi vullu			

1967	Contact with Moving	Found dead between a return idler	
Australia	or Rotating Plant	roller and the return belt on a	
New South Wales	(Guarding/Access to	Conveyor at the mine surface. He	
Coal	Danger Zone)	was trying to clear some coal from	
Open-Cut	Danger Zone)	the idler and was dragged into the	
Open-Cut		belt.	
1047	Contract th Maria		
1967	Contact with Moving	Trapped between the tail and	
Australia	or Rotating Plant	pulley of the return belt of a duff	
New South Wales	(Guarding/Access to	Conveyor belt. He was attempting	
Coal	Danger Zone)	to clear material when he became	
Open-Cut		stuck.	
1967	Contact with Moving	Overbalanced and fell between the	
Australia	or Rotating Plant	frame and revolving driving	
New South Wales	(Guarding/Access to	sheave-flywheel of a jaw crushed	
Non-Coal	Danger Zone)	which he was adjusting while in	
Open-Cut	Danger Lone)	motion.	
12/04/1966	Contact with Moving	Shaft sinker up-ended his drilling	
		machine and drill steel to clean a	
Australia New South Wales	or Rotating Plant		
New South Wales	(Guarding/Access to	choked drill. The air was left on	
Coal	Danger Zone)	and the revolving steel drill	
Underground		became entangled in his clothes,	
		which choked him.	
24/08/1965	Uncontrolled	Fatally injured when he was	
Australia	Release of Energy	crushed by a 70 lb rope roller	
Queensland	23	which had become detached in the	
Coal		main haulage way.	
Underground		main manage way.	
5/07/1965	Contact with Moving	Caught while applying belt	
Australia	or Rotating Plant	dressing to a moving conveyor	
Queensland	(Guarding/Access to	belt.	
Non-Coal	Danger Zone)		
Open-Cut			
1964	Contact with Moving	Mill he was working in	
Australia	or Rotating Plant	accidentally started and caused him	
New South Wales	(Guarding/Access to	to be crushed.	
Non-Coal	Danger Zone)		
Open-Cut	e ,		
1961	Contact with Moving	Surface Conveyor belt was started	
Australia	or Rotating Plant	while he was attempting to clear	
New South Wales	(Guarding/Access to	blockage between belt and return	
Coal	Danger Zone)	roller, when he was caught	
Open-Cut		between.	
1961	Contact with Moving	Was killed instantly by being	
New Zealand	or Rotating Plant	crushed against the revolving Kelly	
Unknown	(Guarding/Access to	by the breakout line when a fresh	
Underground	Danger Zone)	length was to be added to the drill	
		string.	
20/05/1959	Contact with Moving	Fatally injured when he entered a	
Australia	or Rotating Plant	grinding pan to lubricate its rollers	
Queensland	(Guarding/Access to	and the pan was set in motion by	
Non-Coal	Danger Zone)	the belt drive moving from the	
Open-Cut	Sunger Lone)	loose to the fixed pulley.	
4/02/1959	Contact with Moving	Killed when he fell into moving	
Australia	or Rotating Plant	machinery whilst he was carrying	
New South Wales	(Guarding/Access to	out lubrication operations	
Non-Coal	Danger Zone)		
Open-Cut			

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19/04/1932	Contact with Moving	Fatally injured from compound	
Australia	or Rotating Plant	fractures of the pelvis and femur	
Queensland	(Guarding/Access to	and a rupture of the bladder when	
Coal	Danger Zone)	attempting to couple a loaded	
Underground	e ,	truck. While moving, the trucks	
e nuer ground		fouled and he was jammed	
		between the buffer of a moving	
		truck and woodwork of a standing	
		truck.	
28/00/1027	Contont with Marin a		
28/09/1927	Contact with Moving	Fatally injured due to internal	
Australia	or Rotating Plant	injuries whilst adjusting a stop	
Queensland	(Guarding/Access to	block and he was knocked down in	
Coal	Danger Zone)	front of a full set of wagons and	
Underground		dragged several yards.	
Pneumatic Isolation			
1/02/2006	Gas Ignition	Operator was developing a drill	Control plan established when
United States	Explosion	bench when the dozer ruptured a	working with active gas lines
Coal		16inch low pressure, high volume	in the area, hazard recognition
Open-Cut		line, igniting immediately.	training for all staff.
11/02/2003	Other	A press operator was fatally	Establish safe work
United States		injured performing cleanup inside	procedures. Review tasks for
Non-Coal		a reaction tank when a steam	hazards that may be created as
Open-Cut		injection line activated, engulfing	a result of major changes.
Open-Cut			Train employees in safe job
		him in high-pressure steam. The	
		electronic control hadn't been	procedures. Provide proper
		locked out, nor had the valve for	equipment, identify hazards,
		steam been closed and locked.	and wear PPE. Isolate
			equipment prior to work.
15/02/1999	Uncontrolled	A miner was fatally injured	Maintenance or repair not to
United States	Release of Energy	installing a coupling on a high	be performed on air powered
Non-Coal		pressure flexible metal air line.	equipment until the system is
Underground		After installing the coupling, they	relieved of pressure. Safety
		noticed it was misaligned and	chains or other devices to be
		loosened the coupling to straighten	installed at all high pressure
		it when it came apart, allowing the	air hose line connections
		hose to violently whip.	where a connection failure
		nose to violentry winp.	would create a hazard.
1981	Pressure Vessel	Stood on the receiving section of a	would cleate a liazaid.
		Stood on the receiving section of a	
United Kingdom	Explosion	trunk Conveyor and dismantled a	
Coal		joint on a 152mm diameter	
Underground		compressed air range which they	
		had failed to isolate and de-	
		pressurise. As the joint violently	
		parted, the workman was struck	
		and fell to the floor.	
<b>Radiant Isolation</b>			
15/02/2000	Pressure Vessel	An employee received fatal burns	
Australia	Explosion	while repairing a leak in a steel	
New South Wales	1	fuel tank for a grader. The victim	
Non-Coal		was using oxy acetylene equipment	
Open-Cut		when the tank exploded engulfing	
open out		him in burning diesel fuel. The	
		tank had been filled and	
		pressurised to find leak.	

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10/04/1996	Gas Ignition	A crusher operator was welding on	Fire suppression systems
United States	Explosion	a diesel fuel tank which contained	should be kept on hand whilst
Non-Coal		approximately 200 gallons of fuel.	welding and cutting processes
Open-Cut		The tank exploded and inflicted	are being completed.
1		2nd and 3rd degree burns to 87	
		percent of the victim's body. The	
		employee later died from his	
		injuries.	
10/00/1000	Cas Isnitian		
19/09/1990	Gas Ignition	Fatally injured after receiving	
Australia	Explosion	serious burns as the result of a gas	
Queensland		explosion from a build-up of LPG	
Coal		in the revolving frame of a dragline	
Open-Cut		during gouging and welding	
		operation.	
1966	Gas Ignition	Following shaft sinking,	
Australia	Explosion	ventilation equipment had been	
New South Wales		withdrawn from the shaft and this	
Coal		caused a build-up in gassy	
Open-Cut		conditions. While cutting a bolt	
open out		from the top of the shaft, the gas	
		ignited and caused one man to be	
		thrown clear and sustain fatal	
		injuries	
2/12/10/2	<b>D'</b>	×	
3/12/1963	Fire	Front end loader was being used to	
Australia		hold in position an iron plate to be	
New South Wales		welded to the chute of a surface	
Coal		loading ramp, when welding	
Open-Cut		caused a fire under the loader. As	
		he tried to move the loader he	
		became trapped between the loader	
		arms and the fuel tank.	
Thermal Isolation			
2/01/2006	Asphyxiation	Explosion occurred when lightning	Seals installed to prevent
United States	r	as ignition source transferred onto	explosion propagating to the
Coal		discarded pump cable igniting	other side, atmosphere in
Underground		methane which had built up in a	sealed areas monitored to
Chucigi ounu		confined area. This destroyed seals	ensure no penetration,
		to other areas of mine and 12	insulated cables and
		miners died of CO poisoning due	conductors removed to prevent
1 ( 100 / 100 (		to this.	ignition points.
16/09/1996	Fall From Heights	A plumber and greaser were fatally	Safety equipment and harness
United States		injured when 900 deg. materials	should be worn when working
Non-Coal		escaped a kiln. Victims were fixing	in elevated work places.
Open-Cut		an air leak and had removed a door	
		to replace seal when a blockage	
		broke loose. One victim was burnt	
		and later died and other was	
		knocked 25ft to ground.	
1986	Other Explosion	Electrician received fatal burns	
Australia	I	when the oil tank of an oil circuit	
New South Wales		breaker exploded into flames.	
Coal		steaker expressed into futiles.	
Open-Cut			
Open-Cut	1		1