

# Hazard Register



<b>Type</b>	JAW CRUSHER	<b>Location</b>	
<b>Make</b>	-	<b>Sale Number</b>	0
<b>Model</b>	-	<b>Lot Number</b>	
<b>Serial Number</b>			

ID	Hazard Type	Hazard Description
143493.1	Plant Positioning	UNWANTED OR UNCONTROLLED MOVEMENT OF PLANT (NOT FUNDAMENTALLY STABLE). CONSIDER PROVIDING WHEEL CHOCKS FOR PLANT WHERE APPLICABLE.
143493.2	Guarding	ENSURE CAGE GUARDING ON CONVEYORS BOTH ON THE SIDE AND UNDERNEATH ROLLERS. ENSURE INTERLOCK CABLE (SAFE-T-LOCK) SYSTEM ON ALL CONVEYORS (UNABLE TO CHECK FOR FUNCTIONING). FIT INTERLOCKED GUARDING TO PREVENT ACCESS TO EXPOSED JAW CRUSHER AREA, FLYWHEEL AND DRIVE ARRANGEMENTS. ENSURE ALL EXPOSED UNDER CONVEYOR ROLLERS BETWEEN 1-2M ARE GUARDED AS PER THE AS4024.1 SAFE GUARDING OF MACHINERY TO PREVENT ENTANGLEMENT OR CRUSHING.
143493.3	Chemicals	ENSURE THAT THE JSA INCLUDES AN ASSESSMENT OF REMOVAL OF RESIDUAL CHEMICALS. REVIEW STORAGE/DISPOSAL, MATERIAL SAFETY DATA SHEETS AND PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS.
143493.4	Noise	SOUND PRESSURE LEVEL (SPL) NEEDS TESTING, AT THE OPERATOR STATION, AS PER THE REGULATIONS. IF GREATER THAN 85DB(A), ATTACH CLEAR AND VISIBLE WARNINGS RE: USE OF HEARING PROTECTION.
143493.5	Mechanical	UNATTENDED PLANT SHOULD HAVE POWERED MOTIONS DISABLED AND PLANT ISOLATED BEFORE ANY WORK COMMENCES. ENSURE CONSIDERATION IS GIVEN TO STORED ENERGY INCL: GRAVITATIONAL AND LOADS UNDER SPRING COMPRESSION OR TENSION.
143493.6	Electrical	PLANT NEEDS TO BE REGULARLY INSPECTED AND MAINTAINED AS PER AS/NZS 3760: IN-SERVICE SAFETY INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT, AS/NZS 3000: WIRING RULES, AND/OR AS 1543: ELECTRICAL EQUIPMENT OF INDUSTRIAL MACHINES.
143493.7	Plant Operation	OPERATOR MUST BE FAMILIAR WITH THE LOCATION AND OPERATION OF THE MAIN ISOLATING SWITCH AND FIRE FIGHTING APPLIANCES/SERVICES.
143493.8	Dust	ENSURE HAZARDS ASSOCIATED (INCL: AIRBOURNE DUST INHALATION) WITH THE PLANT ARE ASSESSED AND CONTROL PRIOR TO THE OPERATION OF THE PLANT.
143493.9	Plant Structure	PREPARE JOB SAFETY ANALYSIS (JSA) TO ASSESS AND CONTROL HAZARDS ASSOCIATED WITH DISMANTLING, TRANSPORT AND STOWING OF PLANT.
143493.10	Electrical	PLANT TO BE USED IN CONJUNCTION WITH EARTH LEAKAGE CIRCUIT BREAKER (SAFETY SWITCH) AND OVERLOAD PROTECTION. ENSURE EARTH LEAKAGE DEVICE PRESENT ON PLANT.
143493.11	Plant Operation	ACCESS TO BE RESTRICTED TO AUTHORISED AND TRAINED PERSONNEL ONLY. FIT HAZARD WARNING SIGNS (AS APPROPRIATE) TO PREVENT ACCESS TO DANGER ZONES.
143493.12	Plant Operation	NO OPERATING INSTRUCTIONS AVAILABLE FOR THE PLANT. PROVIDE TRAINING AND ATTACH INSTRUCTIONS IN A CLEAR AND VISIBLE POSITION FOR THE OPERATOR.
143493.13	Emergency Stop	ENSURE MULTIPLE E-STOPS PRESENT BOTH IN THE CONTROL ROOM AND AT CRITICAL EXTERNAL POINTS EG BOTTOM OF CONVEYORS. ENSURE THAT THE E-STOPS ARE REGULARLY CHECKED FOR CORRECT FUNCTIONING BEFORE COMMENCING WORK.

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143493.14	Controls	ALL OPERATIONAL CONTROLS TO BE CLEARLY IDENTIFIED AND LABELLED.
143493.15	High Pressure Fluid	HYDRAULIC PRESSURE PRESENT. ENSURE THAT ALL PRESSURE IS RELEASED PRIOR TO PERFORMING MAINTENANCE OR DE-COMMISSIONING TASKS. REGULAR INSPECTIONS SHOULD BE CONDUCTED ON HYDRAULIC HOSES AND FITTINGS.
143493.16	Temperature (Thermal Comfort)	HEAT EXPOSURE, HEAT STROKE. ENSURE CONTROL ROOM HAS SUFFICIENT VENTILATION OR COOLING FOR OPERATORS TO WORK COMFORTABLY.
143493.17	Plant Operation	NO SERVICE/MAINTENANCE RECORDS AVAILABLE. REQUIRES REGULAR DOCUMENTED CONDITION INSPECTIONS (INCL SAFETY RELATED CONTROLS).
143493.18	Electrical	ELECTROCUTION, PLANT DAMAGE OR TRIPS AND FALLS. ENSURE ALL ELECTRICAL POWER CORDS/ LINES ARE GUARDED AND OUTER CONDUIT NOT DAMAGED. ELECTRICAL POWER CORDS/ LINES ARE ROUTED TO PREVENT TRAFFIC OR PEDESTRIANS COMING IN CONTACT.
143493.19	Work Method	ENSURE THAT THE JSA TAKES INTO CONSIDERATION PERSONAL INJURY EXPOSURES (E.G. MANUAL HANDLING TASKS). IN PARTICULAR ANY COMPONENT OF SIGNIFICANT WEIGHT SHOULD BE MARKED WITH ITS WEIGHT TO WARN THE OPERATOR.
143493.20	SLIP TRIP FALL	ENSURE ALL STEPS AND LADDERS HAVE NON-SLIP SURFACES, SECURE AND ARE IN GOOD CONDITION.
143493.21	Plant Structure	ENSURE ACCESS PLATFORM AROUND THE PLANT IS AS PER AS1657: FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION. WALKWAYS AND HANDLES SECURE.
143493.22	Mechanical	POWER SUPPLY TO THE PLANT MUST BE ISOLATED, DE-ENERGISED BEFORE COMMENCING ANY CLEANING AND OR MAINTENANCE ACTIVITIES.
143493.23	Skills	PLANT NOT TO BE OPERATED BY EMPLOYEES WITHOUT SUITABLE INSTRUCTION OR TRAINING.
143493.24	Manual Handling	ENSURE CONSIDERATION IS GIVEN TO PERSONAL INJURY EXPOSURES FROM MANUAL HANDLING TASKS ASSOCIATED WITH REMOVING AND REFITTING GUARDS. ANY COMPONENT WITH SIGNIFICANT WEIGHT SHOULD BE MARKED WITH ITS WEIGHT TO WARN THE OPERATOR.
143493.25	Guarding	MOVING PARTS OF THE PLANT MAY ENTRAP OR CRUSH BODY PARTS. ALL FIXED AND OPENABLE GUARDS MUST BE REPLACED AFTER MAINTENANCE/CLEANING ACTIVITIES.
143493.26	warning device	ENSURE OPERATIONAL SIRENS PRESENT. ENSURE FUNCTIONING CORRECTLY BEFORE STARTING COMMISSIONING PLANT.
143493.27	SAFETY SIGNAGE	MANDATORY PERSONAL PROTECTION EQUIPMENT (PPE) PRESENT ON PLANT. ENSURE THAT EMPLOYEES USING PLANT COMPLY WITH THE PPE REQUIREMENTS.

## Health and Safety Plant Safety Purchaser Information

This plant health and safety information has been prepared by Grays for the purchaser of the plant item as required by National WHS Legislation. Whilst every effort has been made to identify all of the hazards, it should be recognised that all reasonably practicable hazards have been identified given due consideration to:

- state of knowledge about the plant item
- the availability and suitability of ways to eliminate or control the hazards
- the cost of evaluating, eliminating or controlling the hazard

Consequently, if this plant item is being purchased for use at a place of work, the purchaser is reminded of their obligations to involve and consult with employees in identifying foreseeable hazards, assess their risks and to take action to eliminate or control the risks.

In order to assess the risk, it is necessary to consider for all the identified hazards, the chance (likelihood) of something happening that would impact (consequence) on health and safety at the workplace. The following guidelines are provided to assist the purchaser in consistently carrying out an assessment of risk:

Likelihood	Consequences
<ul style="list-style-type: none"><li>• Frequency and duration of exposure</li><li>• Probability of occurrence of hazard or event (including part history of incidents)</li><li>• Possibility to avoid / minimize or limit the damage, impact or harm</li><li>• Reliability and effectiveness of existing / established systems of control</li></ul>	<ul style="list-style-type: none"><li>• Assume “worst case” injury, but also competent follow-up medical and rehabilitation support</li><li>• Consider forces or energy levels, highest belt tensions, size of gears, pulleys or other entrapment points and therefore body parts likely to be injured</li><li>• Consider sharpness of entrapment points, surrounding parts likely to exacerbate injury, and any give in the entrapment point</li><li>• Consider, will entrapment continue until plant is stopped, or can an injured part travel through the entrapment area</li><li>• Are temperatures of plant, or chemicals, likely to further injure entrapped person</li></ul>

The outcome of the risk assessment will be a prioritised list of risk control strategies and actions consistent with the following ratings:

Low risk- may be considered acceptable, where the existing controls in place are seen to be effective, requiring periodic monitoring for effectiveness.

Medium risk- considered to be unacceptable and requiring additional risk controls within medium to long term.

High risk – considered to be unacceptable and requiring action within the short to medium term.

Extreme risk – unacceptable, where immediate action required.

In all of these cases employees/operators must be made aware of the risk controls in place to protect them from the hazards.