



Asset Hazard Register

As at December 02, 2013

Type: SHUTTLE CAR
Make: JOY
Model: 15SC

Auction Venue: 5008456
Lot number:
Sale Date:

ID	Hazard Type	Hazard Description
1	Plant Design	ANYONE WHO OWNS AND OPERATES POWERED MOBILE PLANT MUST ENSURE THAT TRACTORS WITH A MASS OF BETWEEN 560 AND 15,000 KG AND EARTH MOVING MACHINERY WITH A MASS OF BETWEEN 700 AND 100,000 KG MACHINERY ARE FITTED WITH PROTECTIVE STRUCTURES THAT MEET THE REQUIREMENTS OF AUSTRALIAN STANDARDS AS 1636.1-1996: TRACTORS - ROLL-OVER PROTECTIVE STRUCTURES - CRITERIA AND TESTS - CONVENTIONAL TRACTORS, AS 1636.2-1996: TRACTORS - ROLL-OVER PROTECTIVE STRUCTURES - CRITERIA AND TESTS - REAR-MOUNTED FOR NARROW-TRACK TRACTORS AND AS 1636.3-1996: TRACTORS - ROLL-OVER PROTECTIVE STRUCTURES - CRITERIA AND TESTS - MID-MOUNTED FOR NARROW-TRACK TRACTORS AND AS 2294.1-1997: EARTH-MOVING MACHINERY - PROTECTIVE STRUCTURES - GENERAL , AS 2294.2-1997: EARTH-MOVING MACHINERY - PROTECTIVE STRUCTURES - LABORATORY TESTS AND PERFORMANCE REQUIREMENTS FOR ROLL-OVER PROTECTIVE STRUCTURES AND AS 2294.3-1997: EARTH-MOVING MACHINERY - PROTECTIVE STRUCTURES - LABORATORY TESTS AND PERFORMANCE REQUIREMENTS FOR FALLING-OBJECT PROTECTIVE STRUCTURES
2	Plant Operation	ENSURE THAT PLANT IS OPERATED IN ACCORDANCE WITH THE GUIDANCE AND GENERAL REQUIREMENTS OF THE NOHSC PUBLICATION: NATIONAL OCCUPATIONAL HEALTH AND SAFETY CERTIFICATION STANDARD FOR USERS AND OPERATORS OF INDUSTRIAL EQUIPMENT - 3RD EDITION [NOHSC:1006 (2001)], NOHSC PUBLICATION: NATIONAL STANDARD FOR PLANT [NOHSC:1010(1994)]
3	Plant Operation	CONDUCT PRE-START CHECKS DAILY - RETAIN RECORDS OF INSPECTIONS
4	Hazard Control	ASSESS PLANT FOR ENTANGLEMENT AND ENTRAPMENT HAZARDS ENSURE PLANT IS GUARDED AS

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REQUIRED BY AS4024.1 SAFEGUARDING OF MACHINERY - GENERAL PRINCIPLES. MAINTAIN SIGNAGE WARNING PERSONS OF PINCH POINTS ASSOCIATED WITH ARTICULATION OF PLANT DURING OPERATION

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| 5 | Plant Operation | UNAUTHORISED OPERATION OF PLANT (KEYS LEFT IN THE IGNITION). REMOVE KEYS FROM IGNITION IF PLANT IS LEFT UNATTENDED |
| 7 | Hazard Control | OWNERS AND USERS OF MOBILE PLANT MUST ENSURE THAT WARNING DEVICES ARE FITTED TO WARN PEDESTRIANS WHEN THE VEHICLE IS MOVING. |
| 8 | Plant Operation | HYDRAULIC PRESSURE PRESENT. ENSURE THAT ALL PRESSURE IS RELEASED PRIOR TO PERFORMING MAINTENANCE OR DE-COMMISSIONING TASKS. ANYONE WHO OWNS AND OPERATES POWERED MOBILE PLANT MUST ENSURE THAT THE PLANT INCORPORATES ERGONOMIC PRINCIPLES, ALLOWS SAFE ACCESS TO VARIOUS COMPONENTS FOR MAINTENANCE, ADJUSTMENT, REPAIR AND CLEANING, MINIMISES THE BUILD UP OF UNWANTED SUBSTANCES OR MATERIALS THAT CREATE A RISK AND MINIMISES THE RISK OF UNINTENDED OVERTURNING OR A FALLING OBJECT CONTACTING THE OPERATOR AND, IF THERE IS A RISK OF THE PLANT OVERTURNING, OBJECTS FALLING ON THE OPERATOR OR THE OPERATOR BEING EJECTED, APPROPRIATE PROTECTIVE DEVICES ARE INCORPORATED IN THE DESIGN. |
| 9 | Traffic Management | ENSURE THAT A SAFETY MANAGEMENT PLAN HAS BEEN DEVELOPED AND IS IMPLEMENTED AT THE SITE. INCLUDE SITE PLANT REGISTRATION CONTROLS, TRAFFIC MANAGEMENT PLAN FOR MOBILE PLANT AND NATIONAL CERTIFICATES OF COMPETENCY FOR FOR HIGH RISK WORK. ENSURE THAT MANAGEMENT OF MOBILE PLANT ACTIVITIES IS IN ACCORDANCE WITH THE RELEVANT ACTS AND REGULATIONS IN FORCE. |
| 10 | Noise | AN EMPLOYER MUST ENSURE THAT APPROPRIATE CONTROL MEASURES ARE TAKEN IF A PERSON IS EXPOSED TO NOISE LEVELS THAT EXCEED AN 8-HOUR NOISE LEVEL EQUIVALENT OF 85 DB(A), OR PEAK AT MORE THAN 140 DB(C). IF NOISE IS ABOVE PRESCRIBED LIMITS NOISE MEASUREMENT IS TO BE MADE IN ACCORDANCE WITH AS/NZS 1269.1:1998 OCCUPATIONAL NOISE MANAGEMENT PART 1: MEASUREMENT AND ASSESSMENT OF NOISE IMISSION AND EXPOSURE, AND EXPOSURE TO NOISE IS TAKEN TO BE MEASURED AT THE POSITION OF THE EARS OF A PERSON, OR AT AN EQUIVALENT OF THAT POSITION, AND THE MEASUREMENT IS TO BE MADE ON THE ASSUMPTION THAT THE PERSON IS NOT WEARING ANY DEVICE TO PROTECT HIMSELF OR HERSELF FROM NOISE. |

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11	Plant Damage	AN EMPLOYER MUST ENSURE THAT IF THE PLANT HAS BEEN DAMAGED, AND THE DAMAGE COULD LEAD TO AN INCREASED HEALTH AND SAFETY RISK, THE EMPLOYER MUST ENSURE THAT A COMPETENT PERSON ASSESSES THE DAMAGE AND DETERMINES WHAT REPAIRS MUST BE MADE TO MINIMISE THE RISK AND CARRIES OUT THE REPAIR AND ANY TESTING TO ENSURE THAT IT REMAINS WITHIN THE DESIGN LIMIT.
12	PPE	ASSESS AND SUPPLY PERSONAL PROTECTIVE EQUIPMENT (PPE) - IDENTIFY TYPE AND PROVIDE INSTRUCTION/INFORMATION RE: USE, STORAGE, CARE AND MAINTENANCE OF PPE (E.G. EYE & HEAR PROTECTION
13	Chemicals	AIRBORNE DUST PARTICLES AND OTHER CHEMICALS ASSOCIATED WITH THE PLANT AND/OR PROCESS. DOCUMENT RISK ASSESSMENT OF CHEMICALS ASSOCIATED WITH THE PLANT AS PER AS4360-2004 RISK MANAGEMENT AND IMPLEMENT APPROPRIATE CONTROLS. REFER TO MSDS. PROVIDE EYE AND BREATHING PPE AS APPROPRIATE.
14	Plant Structure	OWNERS AND USERS OF MOBILE EQUIPMENT MUST ENSURE THAT POWERED MOBILE PLANT IS FITTED WITH APPROPRIATE SEAT RESTRAINTS IF: THE PLANT IS FITTED WITH A ROLLOVER PROTECTIVE STRUCTURE OR A FALLING OBJECT PROTECTIVE STRUCTURE AND ATTACHMENT POINTS FOR THE SEAT RESTRAINTS ARE PART OF THE ORIGINAL DESIGN.
15	Plant Operation	A PLANT MANUFACTURER/OWNER/SITE CONTROLLER MUST IDENTIFY ANY FORESEEABLE HAZARD THAT MAY BE INCORPORATED INTO THE PLANT DURING THE OPERATIONAL PROCESS AND THAT HAS THE POTENTIAL TO HARM THE HEALTH OR SAFETY OF ANY PERSON DURING THE INSTALLATION, ERECTION, COMMISSIONING, USE, REPAIR, DISMANTLING, STORAGE OR DISPOSAL OF THE PLANT AT A PLACE OF WORK OR, IN THE CASE OF PLANT AFFECTING PUBLIC SAFETY, AT ANY OTHER PLACE AT WHICH THE PLANT IS LOCATED.
16	Warning Devices	CONDUCT REGULAR MAINTENANCE CHECKS OF WARNING SYSTEMS AND LIGHTS RETAIN RECORDS OF INSPECTIONS.
17	Maintenance	AN EMPLOYER MUST PERFORM MAINTENANCE, INSPECTION AND CLEANING ON PLANT IN ACCORDANCE WITH THE MANUFACTURER'S AND DESIGNER'S REQUIREMENTS AND MUST PUT IN PLACE THE NECESSARY

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FACILITIES AND SYSTEMS OF WORK TO ENSURE THE SAFETY OF PERSONS WHO PERFORM THE MAINTENANCE, INSPECTION AND CLEANING . IF ACCESS TO THE PLANT IS REQUIRED TO PERFORM THESE TASKS, THE PLANT MUST BE STOPPED AND ONE OR MORE OF THE FOLLOWING MEASURES MUST BE USED TO CONTROL THE RISKS , LOCKOUT OR ISOLATION DEVICES, DANGER TAGS , PERMIT TO WORK SYSTEMS OR OTHER CONTROL MEASURES.

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| 18 | Training and Competency | A PERSON MUST NOT OPERATE OR USE CERTAIN TYPES OF PLANT, OR EMPLOY OR DIRECT ANOTHER PERSON TO OPERATE OR USE SUCH PLANT, IF THE OPERATOR DOES NOT POSSESS A CERTIFICATE OF COMPETENCY, OR IS DECLARED COMPETENT TO OPERATE THE PLANT OR HAS A RECOGNISED QUALIFICATION TO OPERATE THAT PLANT. ENSURE OPERATOR IS APPROPRIATELY LICENSED/CERTIFIED/COMPETENCY ASSESSED TO OPERATE PLANT. ENSURE RECORDS OF QUALIFICATIONS ARE RETAINED ONSITE |
| 19 | Entanglement | ASSESS PLANT FOR ENTANGLEMENT AND ENTRAPMENT HAZARDS ENSURE PLANT IS GUARDED AS REQUIRED BY AS4024.1 SAFEGUARDING OF MACHINERY - GENERAL PRINCIPLES. |
| 20 | Plant Operation | ANYONE WHO OWNS AND OPERATES POWERED MOBILE PLANT MUST ENSURE THAT THE PLANT IS NOT USED TO CARRY, LIFT OR LOWER ANOTHER PERSON (OTHER THAN THE OPERATOR) UNLESS, IT IS DESIGNED TO DO SO, IF IT HAS A SPECIFICALLY-DESIGNED SEAT FOR CARRYING ANOTHER PERSON, THE SEAT IS INSIDE A PROTECTIVE ZONE AND SEAT BELTS ARE FITTED AND THE OTHER PERSON IS SEATED IN THE SEAT. |
| 21 | Signage | ENSURE SIGNAGE IS MAINTAINED FOR PINCH AND CRUSH POINTS ON PLANT AS REQUIRED BY LEGISLATION |



Work Health and Safety (WHS)

Plant Safety

Purchaser Information

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

The outcome of the risk assessment is a prioritised list of risks and risk controls (existing and proposed) for further action based on the following risk 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.