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Item Hazard Report

Asset Information

Type	Cooling Tower	Location	38 Bryant Street, Padstow, NSW 2211.
Make		Model	
Serial Number		Sale – Asset ID	A-687-10

PLANT/EQUIPMENT SAFETY ADVICE TO PURCHASERS

The Occupational Health & Safety Regulations 2017 (Regulation 90) requires suppliers of plant and equipment to provide written advice to a purchaser as to condition of the item and any known safety hazards or concerns. The information provided in this report is based on a visual inspection only. No physical testing has been conducted (eg. Wire rope testing, stress testing, structural/non-destructive testing, noise testing, vibration testing, brake testing, insulation testing, etc.)
The item described within this report is being sold in an 'as-is' condition with all identified safety hazards or concerns outlined within this report.
Purchasers should conduct their own risk and hazard assessments to identify and control hazards prior to installing and/or using the equipment.

Potential Hazards

Category 1: Major Potential Hazards	
Specific warnings or conditions	▪ Refer to any technical or operating manuals, safe use instructions that are made available
Entanglement	▪ Lack of guarding ▪ PPE, Hair or other body parts caught in moving parts ▪ Rotating parts
Crushing	▪ Falling, uncontrolled or unexpected movement of item or load ▪ Item tipping or rolling over ▪ Being trapped under or between the item, and/or fixed structure ▪ Struck by moving parts

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Category 1: Major Potential Hazards	
Striking	▪ Item disintegrating ▪ Work pieces thrown out ▪ Moving parts
Explosion or loss of contents	▪ Gas, dust or vapour emissions ▪ Storage of haz chemicals/ DG's near item ▪ Collapse or fragmentation
Fire	▪ Friction ▪ Ingress of materials/fluids ▪ Build-up of materials/ lubricants ▪ Fluids / lubricants
Hazardous fumes or vapours?	▪ Hazardous chemicals/DG's from coolants
Dust	▪ Explosive atmosphere ▪ Breathing hazard ▪ Reduced visibility
Loss of load	▪ Materials falling or rolling from plant
Chemical	▪ Leaking from item ▪ Splashing ▪ Explosion

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Category 2: Moderate Potential Hazards	
Pressure	▪ Hydraulic leak ▪ Hydraulic system rupture ▪ Fluid penetration of skin ▪ Pressure control altered ▪ Pressure limiter failure ▪ Damaged hydraulic system
Electrical	▪ Lack of insulation ▪ Contact with electrical conductors ▪ Poor earthing ▪ Water near equipment ▪ Lack of isolation
Cut, stab, or puncture	▪ Lack of Guarding ▪ Flying objects ▪ Moving parts ▪ Pinch points ▪ Sharp edges
Shearing:	▪ Between ▪ Two moving parts of the plant ▪ A part of the plant and a work piece / fixed structure ▪ A part of the plant and another object (e.g. plant or vehicle)
Abrasion, tearing or stretching:	▪ Between ▪ A moving part ▪ A moving surface of the plant ▪ Material handled by the plant ▪ Continuous contact with moving parts
Slip, trip, or fall?	▪ Liquid spills or solid waste materials on floor / ground
Isolation of energy sources?	▪ Hydraulic pressure ▪ Compressed gases ▪ Electrical feeds/capacitors ▪ Motive power systems ▪ Suspended loads
Loss of power?	▪ Loss of electrical supply ▪ Ability to lower suspended loads
Extreme temperature changes?	▪ Fire ▪ Burns through conduction ▪ Convection ▪ Cryogenic burns ▪ Fluids overheating due to lack of maintenance
Radiation?	▪ X-rays ▪ EMR ▪ Laser

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Category 3: Minor Potential Hazards	
Weather	▪ Wet conditions ▪ Electrical storms
Vibration	▪ Plant becomes unstable ▪ Causes physical problems for the operator whilst operating ▪ Operation could cause unacceptable vibration levels in nearby structures
Noise	▪ Emit >85 dBA at the operator ▪ Effects operator communication
Light	▪ At the controls ▪ At the task ▪ Darkens surrounding areas
Environment	▪ Co-located equipment ▪ Isolation requirements
Operator training / qualifications	▪ Training requirements ▪ Qualification requirements ▪ Competency assessments ▪ Documentation ▪ Operator's manual ▪ Equipment experience ▪ Product knowledge
Manual handling	▪ Repetitive or sustained movements ▪ Awkward positions ▪ Strained movements ▪ Poorly designed seating ▪ Access for maintenance
Ergonomic - operating controls	▪ Difficult to understand ▪ Function not identified ▪ Inappropriate controls & switches ▪ Labelling of controls and indicators

IMPORTANT NOTICE: It is recommended that this item be further tested, inspected or dismantled by the purchaser as necessary to assess any further hazards which are currently unknown. Under the Occupational Health & Safety Regulation 2017 it is a requirement for the plant owner, employer and operator to exercise a duty of care in the supply and safe operation of plant. Accordingly, before this item is used at any workplace it must be in a fully operational, safe and serviceable condition.

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