PLANT RISK ASSESSMENT

Plant Details

Location	Date of Assessment	Current Hours	Last Serviced Hours	Type of Service

Type and Make	Model	Serial Number	Asset / Plant Number	Owner of Plant

Assessment Details

Assessment completed by	Company	Signature

Item	Results & Comments
Purpose of Plant Risk Assessment:	
Competency / Licence Required to Operate:	
Is the plant designed to perform the task?	☐ Yes ☐ No
Has the plant been modified from the original condition?	☐ Yes ☐ No
Is the plant in good working condition?	☐ Yes ☐ No
All identified action items closed out/addressed (plant checks)?	☐ Yes ☐ No
Is the plant safe to operate? (On completion of F-WHS02-01 and action closure)	☐ Yes ☐ No Date: Signature:

NOTE: All operators or the plant or equipment shall be briefed on this plant risk assessment prior to first time use.

Risk Assessment

	Potential Hazards	N/A	Initial Risk Level	Describe Hazard and machine condition (i.e. Operation (OP), Maintenance (M), Breakdown (B))	Control Measure(s) Required (Considering the Hierarchy of Controls)	Residual Risk Level	Action & Action By	Close Out Date & Sign (only where specific corrective action is required)
1.	Is the item of plant fitted with INTERLOCKS which cause the item to cease operating? Functionality of these devices must be confirmed.	☐						
2.	Are any ISOLATION DEVICES or IMMOBILIZERS fitted to prevent operation? Are these in a serviceable state?	☐						
3.	Are there any specific warnings or conditions (manufactures or other) relating to potential hazards from the operation of the item of plant? (Eg, Refer to technical or operating manuals, SOPs, safe use instructions etc)?	☐						
4.	Can anyone be ENTANGLED in the plant? eg Hair caught in moving parts, PPE caught in moving parts	☐						
5.	Can anyone be CRUSHED? eg Being crushed by moving parts.	☐						

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6.	Can anyone be CUT, STABBED or PUNCTURED? eg Flying objects, moving parts, pinch points	☐						
7.	Can SHEARING occur? eg Between two moving parts	☐						
8.	Can FRICTION occur? eg Continuous contact with moving parts	☐						
9.	Can anyone be STRUCK whilst operating the plant OR when the plant is operating? eg Plant disintegrating, work pieces thrown out, moving parts, plant operation	☐						
10.	Can a hazardous PRESSURE be produced? eg Hydraulic hoses, radiator, etc	☐						
11.	Can an ELECTRICAL hazard be created? eg Lack of insulation, contact with electrical conductors, poor earthing	☐						
12.	Can an EXPLOSION occur? eg Gas emission, dusts, vapours, fuel tank	☐						
13.	Can anyone using or near the plant SLIP, TRIP or FALL? eg Uneven surface, fall from a height, weather conditions	☐						

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14.	Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant? eg Poor posture, repetitive movements, awkward positions, strained movements	☐						
15.	Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant? eg Difficult to understand, inappropriate colouring, function not identified	☐						
16.	Can anyone be SUFFOCATED? eg Lack of oxygen, contaminated atmosphere	☐						
17.	Does operation of the plant cause extreme TEMPERATURE changes? eg Fire, burns through conduction, convection, cryogenic burns	☐						
18.	Can certain WEATHER conditions create a hazard? Eg Hypothermia, heat stroke, wet conditions	☐						

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19.	Does VIBRATION of the plant create a hazard? eg Plant becomes unstable, causes physical problems for the operator	☐						
20.	Can the plant emit toxic FUMES or VAPOURS? eg Exhaust fumes, chemicals	☐						
21.	Carry out the NOISE survey on last page. Is the plant noisy? eg Emit >85 dBA at the operator, effects operator communication	☐						
22.	Carry out the LIGHT survey on last page. Is there poor visibility eg. At the controls, at the task, darkens surrounding areas	☐						
23.	Does the plant emit RADIATION? Eg X-rays, EMR, laser	☐						
24.	Can operation of the plant create DUST? eg Explosive atmosphere, breathing hazard, decrease visibility	☐						

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25.	Can the plant become UNSTABLE during operation? eg Working on uneven ground, shifting load. Confirm that any Roll-Over Protective Structures (ROPS) are correctly fitted and compliant.	☐						
26.	Could LOSS of LOAD occur? eg Failure of ropes/slings, overloading, entanglement in surrounding structures	☐						
27.	Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? eg Power lines, low ceiling, other plant, storage areas	☐						
28.	Can CHEMICALS create a hazard? eg Leaking from plant, splashing, explosion	☐						
29.	Are there ANY OTHER potential hazards generated by or during the use of this item of plant and/or any attachments? Include potential hazards occurring at non-operating conditions (i.e. maintenance, breakdown)	☐						

PLANT RISK ASSESSMENT

NOTE: Strike out below any tests that are not applicable to the plant undergoing risk assessment.

Noise Report

Equipment Type		**Test conducted by:**		**Sound Level Meter Unit Used:**	
Serial / Asset No.		**Date of Test:**		**Manufacturers specified noise level (dBA)**	
Make and Model		**Signature:**		**Background noise level (dBA)**	
Results	**Operators Station (dBA)**	High Idle: Low Idle:	**Bystander Position (dBA)** **(Conducted 7 metres from side of equipment operating at high idle)**	Front: Rear: Left: Right:	
Comments					

Lighting Report

Equipment Type		**Test conducted by**		**Lux Meter Used**	
Serial / Asset No.		**Date of Test**			
Make and Model		**Signature**			
Results	**Operators Station (Lux)**	At controls: ☐ At emergency control: ☐ In front/over task: ☐ Left side task: ☐ Right side task: ☐	**Surroundings**	Clearly seen by others: ☐ Yes ☐ No Decrease lighting in walkways: ☐ Yes ☐ No Decrease lighting to other workstations: ☐ Yes ☐ No	
Comments					

Clear Form

PLANT RISK ASSESSMENT

LIKELIHOOD How likely could it happen?	CONSEQUENCES: How severely could it affect health and safety?				
	Insignificant *No medical treatment required*	**Minor** *Minor lost time injury or illness*	**Moderate** *Moderate lost time injury or illness*	**Major** *Serious lost time injury or illness*	**Catastrophic** *Death or permanent disablement*
Almost Certain *Is expected to occur in most circumstances*	**Medium (8)**	**High (16)**	**Very High (21)**	**Very High (23)**	**Very High (25)**
Likely *Will probably occur in most circumstances*	**Medium (7)**	**Medium (12)**	**High (19)**	**Very High (20)**	**Very High (24)**
Possible *Might occur at some time*	**Low (3)**	**Medium (11)**	**High (15)**	**High (18)**	**Very High (22)**
Unlikely *Could occur but doubtful*	**Low (2)**	**Low (5)**	**Medium (10)**	**Medium (13)**	**High (17)**
Rare *May occur but only in exceptional circumstances*	**Low (1)**	**Low (4)**	**Low (6)**	**Medium (9)**	**Medium (14)**

Based on Table 6.6 HB436-2004 Risk Management Guidelines Companion to AS/NZS4360:2004

Risk Level	Action
VH - Very High	**ACT NOW – Urgent - Do something about these risks immediately**
H – High	**Highest management action required urgently**
M – Medium	**Manage by specific monitoring or management procedures**
L – Low	**These risks may not need immediate action – manage by routine procedures**

Consequence scales for environmental hazards and risks

Consequence	Description
Catastrophic	Catastrophic long term environmental impairment of eco systems functions
Major	Very serious long term environmental impairment of eco systems functions
Moderate	Serious medium term environmental effects
Minor	Moderate short term effects not affecting eco system functions
Insignificant	Minor effects on biological or physical environment