PLANT RISK ASSESSMENT - XB39EK

Type and Make	Date of Assessment	Asset ID
Everdigm on Mitsubishi	**04-04-2024**	**LP3**
Model	Serial Number	Plant ID
LP790 / 1124	**1018**	**LP790**

Purpose of plant risk assessment	Concrete Pumping & Placement		Assessment completed by: **W.T. McClelland**
Competency / Ticket Required to Operate:	High Risk Work License Class PB		Signature
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 this form)	Yes ☒	No ☐	

Potential Hazards	**Raw Risk**			**Describe Hazard and machine condition (i.e. Operation (OP), Maintenance (M), Breakdown (B))**	**Control Measure(s) Required (Considering the Hierarchy of Controls)**	**Residual Risk** (refer table below)			**Action By**	**Close Out Date & Sign** (only where specific corrective action is required)
	L	**C**	**R**			**L**	**C**	**R**		
1. Is the item of plant fitted with INTERLOCKS which cause the item to cease operating? Functionality of these devices must be confirmed.	B	4	H	Crushing in hopper	Grate cut off switch, shuts pump off when lifted	D	4	M	All workers	
2. Are any ISOLATION DEVICES or IMMOBILIZERS fitted to prevent operation? Are these in a serviceable state?	C	3	M	Electric Shock	Isolation switches and e-stops fitted and to be used when performing maintenance on truck	E	3	L		
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)?	D	3	M	High winds, power lines, crushing	Refer to Aust. Standards. Overhead power lines and high winds	E	3	L		
4. Can anyone be ENTANGLED in the plant? eg Hair caught in moving parts, PPE caught in moving parts	C	4	H	Caught in hopper, working under truck	Isolation switches to be used for maintenance	E	4	M		

Potential Hazards	Raw Risk			Describe Hazard and machine condition (i.e. Operation (OP), Maintenance (M), Breakdown (B))	Control Measure(s) Required (Considering the Hierarchy of Controls)	Residual Risk (refer table below)			Action By	Close Out Date & Sign (only where specific corrective action is required)
	L	C	R			L	C	R		
5. Can anyone be CRUSHED? eg Being crushed by moving parts.	C	4	H	Crushed by outriggers or boom	Exclusion zones	E	4	M		
6. Can anyone be CUT, STABBED or PUNCTURED? eg Flying objects, moving parts, pinch points	C	3	M	Crush/pinch points in hopper, boom, outriggers	Exclusion zones and isolation switches fitted	E	3	L		
7. Can SHEARING occur? eg Between two moving parts	C	3	M	Hopper/Outriggers	Exclusion zones and isolation switches fitted	E	3	L		
8. Can FRICTION occur? eg Continuous contact with moving parts	C	2	M	Hose movement on line hand	Keep hoses off body/shoulders	D	2	L		
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	C	3	M	Air in delivery line causing explosion of concrete	Visual contact with hopper to ensure adequate level of concrete	E	3	L		
10. Can a hazardous PRESSURE be produced? eg Hydraulic hoses, radiator, etc	C	3	M	Delivery pipes or hydraulic hoses blow under pressure	Regular maintenance, pipe thickness checks and visual checks on hydraulic hoses	E	3	L		
11. Can an ELECTRICAL hazard be created? eg Lack of insulation, contact with electrical conductors, poor earthing	C	3	M	Contact with overhead power lines	Maintain minimum distances from power lines as per regulations	E	3	L		
12. Can an EXPLOSION occur? eg Gas emission, dusts, vapours, fuel tank				N/A						
13. Can anyone using or near the plant SLIP, TRIP or FALL? eg Uneven surface, fall from a height, weather conditions	C	3	M	Falling from truck, trips on site	Housekeeping, exclusion zones and handrails/fall protection	E	3	L		
14. Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant? eg Poor posture, repetitive movements, awkward positions, strained movements	C	3	M	Manual lifting injuries, back injuries from bad hose handling technique	Correct lifting techniques or mechanical aids. Correct hose handling techniques as per training	E	3	L		

Potential Hazards	Raw Risk			Describe Hazard and machine condition (i.e. Operation (OP), Maintenance (M), Breakdown (B))	Control Measure(s) Required (Considering the Hierarchy of Controls)	Residual Risk (refer table below)			Action By	Close Out Date & Sign (only where specific corrective action is required)
	L	C	R			L	C	R		
15. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant? eg Difficult to understand, inappropriate colouring, function not identified				N/A						
16. Can anyone be SUFFOCATED? eg Lack of oxygen, contaminated atmosphere				N/A						
17. Does operation of the plant cause extreme TEMPERATURE changes? eg Fire, burns through conduction, convection, cryogenic burns				N/A						
18. Can certain WEATHER conditions create a hazard? Eg Hypothermia, heat stroke, wet conditions	B	4	H	Wind forces >70km/h Lightning storms	Pack up boom severe in weather conditions	D	2	L		
19. Does VIBRATION of the plant create a hazard? eg Plant becomes unstable, causes physical problems for the operator				N/A						
20. Can the plant emit toxic FUMES or VAPOURS? eg Exhaust fumes, chemicals				N/A						
21. Carry out the NOISE survey on last page. Is the plant noisy? eg Emit >85 dBA at the operator, effects operator communication				N/A						
22. Carry out the LIGHT survey on last page. Is there poor visibility eg. At the controls, at the task, darkens surrounding areas				N/A						
23. Does the plant emit RADIATION? Eg X-rays, EMR, laser				N/A						
24. Can operation of the plant create DUST? eg Explosive atmosphere, breathing hazard, decrease visibility				N/A						

Potential Hazards	Raw Risk			Describe Hazard and machine condition (i.e. Operation (OP), Maintenance (M), Breakdown (B))	Control Measure(s) Required (Considering the Hierarchy of Controls)	Residual Risk (refer table below)			Action By	Close Out Date & Sign (only where specific corrective action is required)
	L	C	R			L	C	R		
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.	C	3	M	Pump tipping due to uneven/soft ground Underground services	Sufficient dunnage Site inspection	E	3	L		
26. Could LOSS of LOAD occur? eg Failure of ropes/slings, overloading, entanglement in surrounding structures				N/A						
27. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? eg Power lines, low ceiling, other plant, storage areas	C	3	M	Underground services Power lines Shed roof	Site inspections Competent operators	E	3	L		
28. Can CHEMICALS create a hazard? eg Leaking from plant, splashing, explosion	C	2	M	Fuel/oil spills	Prestart inspections Regular maintenance	E	2	L		
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)				N/A						

ALL OPERATORS OF THE PLANT OR EQUIPMENT SHALL BE BRIEFED ON THE PLANT RISK ASSESSMENT PRIOR TO FIRST TIME USE.

LIKELIHOOD	CONSEQUENCES				
	Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
A (Almost Certain)	M	H	H	E	E
B (Likely)	M	M	H	H	E
C (Possible)	L	M	M	H	H
D (Unlikely)	L	L	M	M	H
E (Rare)	L	L	L	M	M

CONSEQUENCES – If this does happen, how severe would the outcome be?		
CODE	DESCRIPTOR	DEFINITION
5	Catastrophic	Fatality/ multiple serious injuries, environmental disaster, huge cost
4	Major	Serious/life threatening injury, severe environmental damage, major cost
3	Moderate	Injury requiring medical treatment, contained environmental impact, moderate cost
2	Minor	First aid treatment, some environmental/financial impact
1	Insignificant	No injury, low environmental/financial impact

Risk Level Code	Description	Actions
E	EXTREME	**Do not undertake task.** Modify process / design.
H	HIGH	Action plan required including controls to manage risk. Requires senior management attention
M	MEDIUM	Specify management responsibility
L	LOW	Manage by routine procedures

LIKELIHOOD – How likely is this event to happen?		
CODE	DESCRIPTOR	DEFINITION
A	Almost certain	Is expected to occur in most circumstances
B	Likely	Will probably occur in most circumstances
C	Possible	Might possibly occur at some time
D	Unlikely	Could occur at some time but doubtful
E	Rare	May occur but only in exceptional circumstances