

		ſ			Risk Matr	·ix		
Assessment Number: 00001 Assessment Date: 0	01 Jul 20 [.]	15	Consequences		Like	lihood or Probat	bility	
Plant Type: HA25 Dump Truck Plant Make: KOMATSU Model: Highl Asset/Fleet/Rego No: 11-101 Plant Serial No. 710872	line Artic	ulated	People	Almost Certain (expected)	Likely (will probably occur)	Moderate (might occur – has happened)	Unlikely (could occur – known to happen)	Rare (practically impossible)
Assessment Facilitated by: Tahir Ahmed – WHS Representative			No Incident or First Aid Injury	High	Medium	Low	Low	Low
		-	Medical Treatment	15 High	19 High	22 Medium	24 Low	25 Low
Assessment Devitation of a Michael Mait Disector				10	14	18	21	23
Assessment Participants: Michael Moit – Director George Saliba – Mechanic		-	Alternate Work or	Extreme			Medium	Medium
Tony Moit - Director			Lost Time Injury	6	High 9	High 13	17	20
Diant Owner Names N Mait and Same (NSMI) Divided			Serious or Permanent Injury	Extreme	Extreme	Extreme	High	High
Plant Owner Name: N Moit and Sons (NSW) Pty Ltd			Fatality	3	5	8	12 Easterness	<u>16</u>
Initial Assessment Follow up Assessment (See below)			,	Extreme 1	Extreme 2	Extreme 4	Extreme 7	High
Follow up based on change to: Use of plant System of work	Plant Er	nvironme	ent 🗌 New or addition	onal information	tion 🗌 🛛 Pla	int through m	odification [
Any hazard assessed as presenting a low and/or medium risk level will be controlled using a combi	ination of cor	ntrols as app	ropriate.					
Any hazard assessed as presenting a high risk level must be controlled using a combination of at le	east one engin	neering contr	ol and lower level controls as ap	propriate. Where	this is not possibl	e, Workplace Mana	ger consultation n	ust take place.
Any hazard assessed as presenting an extreme risk level will be controlled using elimination and en	-	-	-		-	-	-	
Any nazaru assessed as presenting an extreme risk level will be controlled using eminiation and en	ingineering as	the printary	source of controls. where this i				ike place.	
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 and free of weeds & mud?	Yes 🛛	No 🗌						
All identified action items closed out/addressed (plant checks)?	Yes 🛛	No 🗌						
Is the plant safe to operate? (On completion of PRA and action	Yes 🖂	No 🗌	Date:		Signature:			

closure)



		Haza	Ird		Controls Currently In	Current	New or Additional	Final	New or Additional	Action Verified as
Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	(Name and Date)
 Are there any specific warnings or conditions (manufactures or other) relating to potential hazards from the operation of the item of plant? Refer to technical or operating manuals, SOPs, safe use instructions List any relevant safety warning hazards & controls 				Improper use of machinery Movement of machinery Overhead power lines Falling from windows Swinging machinery	Protective equipment and clothing Decal stickers warning of potential hazard Operator experience and qualification	24	Nil	24		
 2. Are there any <u>COMMUNICATION</u> requirements in relation to the safe operation of the plant? Active signalling processes. Point to point communications. Whistle Spotter (with/without whistles) Flag signalling Labels and signage 					Point to point communications Labels and signage Horn warnings from cabin UHF Radio communication	25	Nil	25		



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Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	(Name and Date)
 3. Can anyone be <u>ENTANGLED</u> in the plant? Hair or other body parts caught in moving parts PPE caught in moving parts Isolation devices Warning decals Guarding Rotating parts Emergency stops 				Moving components in operating engine compartment. Prestart Check	Only Competent Licensed Operators to operate Dump Truck.	23	Nil	23		



		Haza	rd			Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
 4. Can anyone be CRUSHED or TRAPPED? (e.g. through unexpected movement, lack of capability for plant or equipment to be slowed, stopped or immobilised, plant tipping or rolling, being thrown from plant) Emergency stop (E Stop) Service or parking brake Battery isolator ROPs/FOPs Being crushed between moving parts Unexpected movement Neutral Start Reversing/travel alarm Warning horn Amber flashing beacon Rear swing warning lights Pedals non slip surface Appropriate controls Rear view mirror Seat belt Door inter locks Crush zone decals Guarding devices 				Crush points in turning area, bin attachment & between load & ground. Crush point between truck movement & stationary & other moving objects or plant. Uncontrolled movement of truck during maintenance operations.	Nil	3	Only Competent Licensed Operators to operate. Spotter to observe/ direct movements if required by Risk Assessment & restrict pedestrian movement within 3m around or under truck operations.	16		



		Haza	ard		Controlo Curronthula	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
5. Can anyone be CUT, STABBED or PUNCTURED?										
 Flying objects Moving parts Pinch points Sharp edges Isolation devices Warning decals Guarding 										
 6. Can SHEARING occur? Between two moving and rotating parts Between fixed and moving parts Warning decals Guarding 				Between slew radius area & carrier/tracks At hydraulic ram and pinch point areas.	Only Competent Licensed Operators to operate Dump Truck. Isolation of plant and personnel during operation No persons allowed within 3m whilst in operation	16		16		
 7. Can ABRASION, TEARING or STRETCHING occur? Continuous contact with moving parts Warning decals Guarding Pulling/pushing 										



		Haza	rd			Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
 8. Can anyone be STRUCK whilst operating the plant? Plant disintegrating Mobility of plant travelling Reversing/travel alarm Amber flashing beacon Work pieces thrown out Moving parts Warning decals Guarding 				Personnel being struck by moving parts Worn or faulty components breaking, disintegrating or ejected. Lack of maintenance. Personnel struck by Scow- end buck of truck	Warning decals Reversing alarm Amber flashing beacon	16	Nil	16		
 9. Can a hazardous PRESSURE be produced? Hydraulic hoses Radiator Come into contact with fluids under high pressure 				Hydraulic hose blowing	Maintenance of machinery Keeping clear of machinery whilst operating	22	Nil	22		
 10. Can an ELECTRICAL hazard be created? Lack of insulation Contact with electrical conductors Poor earthing Water near equipment Lack of isolation Warning decals 				Poor earthing	Warning decals Maintenance of machinery Minimum working distances to be observed, 6m (HV) & 3m (LV).	16	Nil	16		



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Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	(Name and Date)
 11. Can an EXPLOSION or LOSS OF CONTENTS occur? Gas emission, Dusts Vapours, lubricants Fuel tank Storage of Hazsub's/DG's near plant Warning decals Ejection of workpiece Collapse or fragmentation 				Fuel or gas leak / spill.		3	Operator to conduct daily plant pre start checks and document on plant logbook.	20		
 12. Can anyone using or near the plant SLIP, TRIP or FALL? Uneven surface Fall from a height Weather conditions Slippery surfaces 				Uneven surfaces Slippery surfaces	Experienced operators Protective clothing	9	Good housekeeping to be maintained in operating area	20		



		Haza	ard		Operational a Operational Inc.	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
13. Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant?										
 Poor posture Repetitive or sustained movements Awkward positions Strained movements Poorly designed seating Access and egress Access for maintenance Routine inspections and adjustments 										
 14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant? Difficult to understand Inappropriate colouring Function not identified Inappropriate controls & switches Access and egress Labelling of controls and indicators Variation in operators Operation by two or more persons 										



		Haza	ard			Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
15. Are there specific requirements for ISOLATION of energy sources?										
 Hydraulic pressure Compressed gases Electrical feeds/capacitors Motive power systems Suspended loads Operation by two or more persons 										
16. Can unplanned LOSS of POWER create a hazard?										
 Engine shutdown Loss of electrical supply Loss of steering systems Ability to apply brakes and stop Ability to lower suspended loads 										
17. Can anyone be SUFFOCATED?										
 Lack of oxygen Contaminated atmosphere Confined spaces Spaces where air flow is inadequate 										



		Haza	ard			Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
18. Does operation of the plant cause extreme TEMPERATURE changes?										
 Fire Burns through conduction Convection Cryogenic burns Operation in extreme heat or cold 										
 19. Can a FIRE occur? Friction Ingress of materials/fluids Build-up of materials/lubicants Fuels Fire extinguisher 										



		Haza	ard		Controls Currently In	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
20. Can certain WEATHER conditions create a hazard?				Wet conditions	Experienced operators	25	Nil	25		
 Hypothermia / extreme cold Heat stroke / extreme hot Wet conditions Electrical storms Dirt & mud on roads at egress points 										
21. Does VIBRATION of										
the plant create a hazard?				Vibration of equipment	Regular maintenance of equipment and servicing	22	Nil	22		
 Plant becomes unstable Causes physical problems for the operator whilst operating Vibration of equipment Operation could cause unacceptable vibration levels in nearby structures 										



		Haza	Ird		Controls Currently In	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant Level Controls Required Plant	Controls Required on	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)	
 22. Can the plant emit toxic FUMES or VAPOURS? Exhaust fumes Chemicals Hazsub's/DGs 				Exhaust fumes	Operating machinery with cabin windows and door closed	23	Well ventilated	25		
 23. Carry out the NOISE survey on page 9. Is the plant noisy? Emit >85 dBA at the operator Effects operator communication Noise impacts on community during out-of-hours work (including reversing beepers) 										



	Hazard		ard			Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
24. Carry out the LIGHT survey on page 9. Is there poor visibility										
 At the controls At the task Darkens surrounding areas Light impacts on community or sensitive natural environment during out-of- hours work 										
25. Does the plant emit RADIATION? • Eg X-rays • EMR • Laser										



		Hazard			Controls Currently In	Current	New or Additional	Final		Action Verified as
Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	(Name and Date)
 26. Can operation of the plant create DUST? Explosive atmosphere Breathing hazard Reduced visibility Nuisance dust at nearby community 				Nuisance dust at nearby community Breathing hazard	Wetting down of material Operation of machinery with cabin door closed and windows closed Personal protective equipment for personnel wetting the material down.	21	Nil	21		



		Hazard				Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Controls Currently In Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
 27. Can the plant become UNSTABLE during operation? Working on uneven / 				Work on uneven ground	Experienced operators	24	Nil	24		
 Working on uneven / unstable ground Shifting load Lack of plant support Outriggers 										
 28. Could LOSS of LOAD occur? Failure of ropes/slings Overloading Entanglement in surrounding structures Maintenance requirements 				Items falling from bin.		5	The operator is to ensure all carried objects are suitably secured & stowed at all times.	20		



		Hazard			Controls Correctly In	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y N N/A		N/A	Describe Hazard	Controls Currently In Place on Plant Lev		Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
 29. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? Power lines Low ceiling Other plant Storage areas Co-located equipment Isolation requirements Potential for flash flooding if operating adjacent to waterways Operating in known areas of weeds, pathogens or contamination Operating in sensitive environments requiring protection from offsite weeds/pathogens or spills 				Striking scaffold or site containers in working area.	Nil	9	Only Competent Licensed Operators to operate Dump Truck. Loose stacked items to be secured, boxed or palletised.	20		
 30. Can CHEMICALS create a hazard? Leaking from plant Splashing Explosion PPE considerations Spill kit considerations 										



	Hazard		ard		Controls Currently In	Current	New or Additional	Final	New or Additional	Action
Potential Hazards	Y	N	N/A	Describe Hazard	Place on Plant	Risk Level	Controls Required on Plant	Risk Level	Controls Action By: (Name and Date)	Verified as Complete: (Name and Date)
 31. Operator TRAINING / QUALIFICATIONS? Training requirements Qualification requirements Competency assessments Documentation Operators manual Equipment experience Product knowledge 				Operator error	Experienced and qualified operator Product knowledge	17	Ensure operators take required OH&S breaks	24		
32. Are there <u>ANY</u> <u>OTHER</u> potential hazards generated by or during the use of this item of plant and/or any attachments?										



ALL OPERATORS OF THE PLANT OR EQUIPMENT MUST BE BRIEFED ON THE PLANT HAZARD ASSESSMENT (PHA) PRIOR TO FIRST TIME USE. ANY RELEVANT CONDITIONS WHICH MAY IMPACT ON THE OPERATION OF THIS ITEM OF PLANT OR EQUIPMENT MUST BE TRANSFERRED TO THE AMS/TRA.

Strike out if not applicable

NOISE REPORT							
Equipment Type:			Serial/As	set No.			
Make:			Model:				
Test by (print):			Date:				
Signature:							
Sound Level Meter L	Jnit Used:						
Manufactures specifi	ed noise level:		dB	A			
Background level:			dB	A			
Results – Operator's	Station						
dBA H	ligh Idle	d	BA	Low Idle			
	(Equipment C)pe	erating)				
Comments:							
Results – Bystander	Position:						
	Front		dBA				
	Rear		dBA				
	Left		dBA				
	Right		dBA				
At 7 metres	from side of equipment –	Ec	quipment Ope	erating (High Idle)			
Comments:							

Strike out if not applicable

LIGHTING REPORT										
Test by (print):		Date:								
Signature:										
Lux Meter used:										
Results – Operator's station										
At controls										
At emergency control	At emergency control									
In front/over task										
Left side task			Lux							
Right side task			Lux							
Comments:										
Results – Surroundings:										
Clearly seen by others?	🗆 Yes	🗆 No								
Decrease lighting in walkways?	🗆 Yes	🗆 No								
Decrease lighting to other workstations?	□ No									
L I										
Comments:										



COMMENTS:	