

Assessment Number: 1	Assessment Date: 8/7/19
Plant Type: 6" Rapid Response Pump Plant Make: Selwood Plant Model: D150R	Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager)
Asset/Fleet/Rego No: PUMP D150 Plant Serial No. 051802155	Assessment Participants: Leah Ford (Yard Manager)
Plant Owner Name: Northern Hire Group	Initial Assessment
Follow up based on change to:	
Use of plant ☐ System of work ☐ Plant Environment [	☐ New or additional information ☐ Plant through modification ☐
Is the plant designed to perform the task?  Yes X  No	
Has the plant been modified from the original condition? Yes ☐ No	x
Is the plant in good working condition and free of weeds & Yes X No mud?	
All identified action items closed out/addressed (plant Yes X No checks)?	
<b>Is the plant safe to operate? (On completion of PHA and Yes X</b> No <b>action closure)</b>	
	Date: Signature:

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Risk / Opportunity Rating Table (see <u>Risk Management Consultation</u>
<u>Process Appendix</u> for a full description of Risk Consequence, Opportunity Consequence and Likelihood Ratings)

	Almost Certain	D	С	В	Α	A			
ting	Likely	D	D	С	В	Α			
Likelihood rating	Possible	Е	D	С	С	В			
Likeli	Unlikely	E	E	D	С	В			
	Rare	E	Е	D	D	С			
		1	2	3	4	5			
		Consequence rating							

#### **Action and Approval Scheme**

These suggested timings and tolerance levels in the Action Table will be overridden by specific policies of the company that either dictate shorter timeframes for corrective action or zero tolerance. For example, the company has a zero tolerance policy for Safety and Environmental risks.

The decision to tolerate a risk or capture a opportunity should be based on a consideration of:

Whether the risk / opportunity is being controlled to a level that is reasonably achievable;

Whether it would be cost-effective to further control risk or capture the opportunity;

Whether John Holland wishes to tolerate risks / opportunities of that type

#### **Action Table**

Residual risk / opp level	Suggested action	Timing of status report and management plans	Authority for continued toleration or improvement of residual rating.
A	Take action to eliminate or implement additional controls to reduce it to acceptable level (ALARP/SFAIRP).  "Onsite activities" — Intolerable and activity must not commence	Report as soon as practicable. Normally within hours.	Senior Executive Manager Plus Project Manager / Project Leadership Team
В	Implement additional controls reduce it to ALARP/SFAIRP. "Onsite activities" – must not commence without Corporate Management review	Manage and re-evaluate risk / opportunity to allow reporting days  Manage and re-evaluate risk / opportunity to allow reporting every two weeks	General Manager and / or Project Manager / Project Leadership Team
С	Implement additional controls reduce it to ALARP/SFAIRP. "Onsite activities" – must not commence without Site Management review	Manage and re-evaluate risk / opportunity to allow reporting monthly	"Specialist" Manager, eg Construction or Design Manager
D	Will still require attention within existing operations to reduce to ALARP/SFAIRP. "Onsite Activities" – Site Management must determine appropriate level of management and supervision prior to commencement of activity	Manage and re-evaluate risk / opportunity to allow reporting every quarter	Team Leader
E	Lower priority. May be tolerable	Monitor, manage and carryout activity in accordance with identified controls	Supervisor

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Potential Hazards	ŀ	Hazaı	rd N/	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action By:	Action Verified as Complete: (Name and
	Υ	N	A				on Plant	2010.	(Name and Date)	Date)
Are there any specific warnings or conditions (manufacturers or other) relating to potential hazards from the operation of the item of plant?	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
<ul> <li>Refer to technical or operating manuals, SOPs, safe use instructions</li> <li>List any relevant safety warning hazards &amp; controls</li> </ul>										
2. Are there any COMMUNICATION 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	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
3. Can anyone be ENTANGLED 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	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					

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Potential Hazards	Υ	Haza	N/	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required on Plant	Final Risk Level	New or Additional Controls Action By: (Name and Date)	Action 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 Mandatory secondary protection device installed on all boomtype MEWP	Y		A	Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					

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Datastic Horavda	ı	Hazaı	rd	Decaribe Hereyd	Controls	Current Biok Lavel	New or Additional	Final Risk	New or Additional Controls Action	Action Verified as Complete:
Potential Hazards	Υ	N	N/ A	Describe Hazard	Controls	Current Risk Level	Controls Required on Plant	Level	By: (Name and Date)	(Name and Date)
<ul> <li>5. Can anyone be CUT, STABBED or PUNCTURED?</li> <li>Flying objects</li> <li>Moving parts</li> <li>Pinch points</li> <li>Sharp edges</li> <li>Isolation devices</li> <li>Warning decals</li> <li>Guarding</li> </ul>	Y			Potental Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
Between two moving and rotating parts Between fixed and moving parts Warning decals Guarding	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
<ul> <li>7. Can ABRASION,         TEARING or         STRETCHING occur?</li> <li>Continuous contact with         moving parts</li> <li>Warning decals</li> <li>Guarding</li> <li>Pulling/pushing</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
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	Y			Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					

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Potential Hazards	l	Haza	rd	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
T Otombal Hazardo	Υ	N	N/ A	200011001102010	001111010	ourrone ruon 20001	on Plant	Level	By: (Name and Date)	(Name and Date)
9. Can a hazardous PRESSURE be produced?  Hydraulic hoses Radiator Come into contact with fluids under high pressure	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
10. Can an ELECTRICAL hazard be created?  Lack of insulation Contact with electrical conductors Poor earthing Water near equipment Lack of isolation Warning decals	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual.					
<ul> <li>11. Can an EXPLOSION or LOSS OF CONTENTS occur?</li> <li>Gas emission,</li> <li>Dusts</li> <li>Vapours, lubricants</li> <li>Fuel tank</li> <li>Storage of haz chemicals/ DG's near plant</li> <li>Warning decals</li> <li>Ejection of workpiece</li> <li>Collapse or fragmentation</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
12. Can anyone using or near the plant SLIP, TRIP or FALL?  Uneven surface Fall from a height Weather conditions Slippery surfaces	Y			Potential Hazard	Site risk assessment must be undertaken by client prior to operating plant					

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Potential Hazards	ı	Hazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A	2000.100 1.1021.1			on Plant	Level	By: (Name and Date)	(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	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant?		N								
<ul> <li>Difficult to understand</li> <li>Inappropriate colouring</li> <li>Function not identified</li> <li>Inappropriate controls &amp; switches</li> <li>Access and egress</li> <li>Labelling of controls and indicators</li> <li>Variation in operators</li> <li>Operation by two or more persons</li> </ul>										

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Potential Hazards		Haza	rd	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A	2000.120			on Plant	Level	By: (Name and Date)	(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	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
<ul> <li>16. Can unplanned LOSS of POWER create a hazard?</li> <li>Engine shutdown</li> <li>Loss of electrical supply</li> <li>Loss of steering systems</li> <li>Ability to apply brakes and stop</li> <li>Ability to lower suspended loads</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
<ul> <li>17. Can anyone be SUFFOCATED?</li> <li>Lack of oxygen</li> <li>Contaminated atmosphere</li> <li>Confined spaces</li> <li>Spaces where air flow is inadequate</li> </ul>		N								
<ul> <li>18. Does operation of the plant cause extreme TEMPERATURE changes?</li> <li>Fire</li> <li>Burns through conduction</li> <li>Convection</li> <li>Cryogenic burns</li> <li>Operation in extreme heat or cold</li> </ul>		N								

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Potential Hazards	ŀ	Hazaı		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
<ul> <li>19. Can a FIRE occur?</li> <li>Friction</li> <li>Ingress of materials/fluids</li> <li>Build-up of materials/lubricants</li> <li>Fuels</li> <li>Fire extinguisher</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
<ul> <li>20. Can certain WEATHER conditions create a hazard?</li> <li>Hypothermia / extreme cold</li> <li>Heat stroke / extreme hot</li> <li>Wet conditions</li> <li>Electrical storms</li> <li>Dirt &amp; mud on roads at egress points</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
21. Does VIBRATION of the plant create a hazard?  Plant becomes unstable Causes physical problems for the operator whilst operating Vibration of equipment Operation could cause unacceptable vibration levels in nearby structures	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
22. Can the plant emit toxic FUMES or VAPOURS?  Exhaust fumes Chemicals Haz chemicals/DG's	Y			Potential Hazard from exhaust fumes	Do not use in enclosed spaces. Ensure adequate ventilation					

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Potential Hazards	ı	Hazar	ď	Describe Hazard	Controls C	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
23. Carry out NOISE survey on page 14. Is the plant noisy?  Emit >85 dBA at the operator Effects operator communication Noise impacts on community during out-of-hours work	Y			Potential hazard with prolonged use	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
(including reversing beepers)  24. Carry out the LIGHT survey on page 14. 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			N/ A							
25. Does the plant emit RADIATION?  • Eg X-rays • EMR • Laser		N								

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Potential Hazards	ı	Hazaı		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A	2000.130 1102.110			on Plant	Level	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 Impact on local flora and fauna Loss of topsoil and spread of weeds and pathogens	Y			Potential Hazard	Site risk assessment must be undertaken by client to ensure hazardous dust is not disturbed by plant/task (e.g. asbestos)  Exclusion zones and PPE (goggles, mask, protective clothing) will be required and a risk assessment must be undertaken onsite to determine PPE and controls					
<ul> <li>27. Can the plant become UNSTABLE during operation?</li> <li>Working on uneven / unstable ground</li> <li>Shifting load</li> <li>Lack of plant support</li> <li>Outriggers</li> </ul>	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual Site risk assessment must be undertaken by client onsite to determine PPE and controls					
28. Could LOSS of LOAD occur?  Failure of ropes/slings Overloading Entanglement in surrounding structures Maintenance requirements	Y			Potential Hazard	Refer to Operator manual for pre- operational checks, maintenance & load capacity					

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Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(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	Y			Potential Hazard	Site specific risk assessment must be undertaken by client to determine controls, PPE & exclusion zones.					
<ul> <li>30. Can CHEMICALS create a hazard?</li> <li>Leaking from plant</li> <li>Splashing</li> <li>Explosion</li> <li>PPE considerations</li> <li>Spill kit considerations</li> </ul>	Y			Potential Hazard	Site/liquid specific risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.					

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Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
31. Operator TRAINING / QUALIFICATIONS?  Training requirements Qualification requirements Competency assessments Documentation Operator's manual Equipment experience Product knowledge	Y				All operators must completely read and understand the Operator Manual prior to operating plant.  Undertake a Job Safety and Environmental Analysis before use of plant, and use to determine that the relevant safety procedures are in place before commencing work.					
32. Are there ANY OTHER potential hazards generated by or during the use of this item of plant and/or any attachments?	Y			Plant Failure	Pre – Operational Inspection	D	DAILY - Operators must complete Start-up checklist Operation checklist Parking Checklist	E		

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.

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NOISE REPORT									
Equipment Type:	6" Rapid Response Pump	Serial/Asset No.	051802155						
Make:	Selwood	Model:	D150R						
Test by (print):	Leigh Evans	Date:	8/7/19						
Signature:									
Sound Level Meter Unit Used:									
Manufactures specifie	ed noise level:	>80 dBA							
Background level:									
Results - Operator's		>80 dBA High Idle							
(Equipment Operating	3)	>80 dBA Low lo							
Comments:									
must be worn at all tir	Noise level at operator position (Start Panel) is over 80 dB(A). Hearing protection must be worn at all times within the canopy when the unit is running. Failure to comply may result in hearing damage or loss.								
Results – Bystander Position: At 7 metres from side of equipment – Equipment Operating (High Idle)									
Front			dBA						
Rear			dBA						
Left		dBA							
Right			dBA						
Comments:									

LIGHTING REPORT				
Test by (print):		Date:		
Signature:			1	
Lux Meter used:				
Results – Operator's station				
At controls				Lux
At emergency control				Lux
In front/over task				Lux
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 wor	kstations?	□ Yes	□ No	
Comments:				

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COMMENTS:
Use DIESEL fuel only.
Connect Suction Hose Use a reinforced wall or wire braided hose to prevent suction collapse. Since the pump self-priming time is directly proportional to hose length, a short hose is recommended. Always use a strainer with the suction hose as this will prevent large pieces of gravel or debris being sucked into the pump which may cause serious damage to the impeller and pump casing.
Connect Delivery Hose When using a fabric hose, always use a hose band to prevent the hose disconnecting under high pressure.
Check Priming Water It is recommended that the water chamber of the pump casing be primed full of water before operating.
Always ensure end of suction hose is fully submerged in water before starting engine.

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