

RISK ASSESSMENT OF PLANT

	MANUFACTURER: SKYJACK		SKYJACK
DATE OF ASSESSMENT: 20/08/2021	MODEL(S): SJ45AJ+ & SJ60AJ+	ORGANISATION:	AUSTRALIA
PRELIMINARY ASSESSMENT FOR REVIEW	RISK ASSESSMENT METHOD USED: SAFETY REVIEW	ADDRESS:	LOT 272 Honeycomb Drive, Eastern Creek, NSW, 2766

This Hazard Identification and Risk Assessment has been prepared based on information available at the date of publication.

The assessment must be reviewed by all stakeholders and revised:

- (a) Having regard to the options and general arrangement of miscellaneous equipment/facilities that may be provided on the plant according to the end users requirements or specification;
- (b) According to the particular circumstances under which the plant is used and maintained;
- (c) As new hazards are identified or as risks are reassessed;
- (d) As new or revised control measures are implemented;
- (e) As and when work procedures are altered.

Although every attempt has been made to identify reasonably foreseeable circumstances no guarantee as to the completeness of this assessment is implied or provided.

This document is not to be interpreted as a compliance assessment; a separate verification should be undertaken on items of plant to determine if they comply with all relevant Australian Standards.

Please consult the relevant Work Health Safety Regulations for information regarding obligations of parties to conduct their own risk assessment. This risk assessment has been prepared on behalf of the organisation listed above and cannot be used by other parties to discharge any duties they may have under

Documentation

Operators manual: 238266ABA Maintenance Manual: 238275ABA Repair manual: 238275ABA Spare parts manual: 238272ABA Manual Supplements: 0

Description

Self-					
propelled	Boom Lifts	Туре 3	Group B	IC engine	Non-insulated

Sound pressure level <76 dBA at work platform

76 at ground controls rer level <104 dBA

Guaranteed sound power level

Safety Devices

Load Control	Position Control	Moment Limiting	Slope indication	Outriggers	Wheels	Speed Control	Motion Alarm	Secondar y Guarding	Drive Enable System (Slew)	Platform Levelling
Load Sensing	Position Control	NA	Slope Alarm & interlock	NA	Filled Tyres	Elevated Drive Speed control	Motion Alarm	Active 2ndry Guarding	NA	Master/Slave /Mechanical

Risk Ranking Matrix

Reference: ISO TR14121.1 Clause 6.5.2

Severity			Cla	ass Cl (Fr+Pr+	-Av)		Frequency	Probabilit	y	Avoidano	ce
Se		4	5-7	8-10	11-13	14-15	Fr	Pr		Av	
Death, losing an eye or arm	4	MEDIUM	HIGH	HIGH	HIGH	HIGH	≥1 h 5	very high	5		
Permanent, losing fingers	3	LOW	MEDIUM	HIGH	HIGH	HIGH	<1 h - ≥ 24h 5	likely	4		
Reversible, medical attention	2	LOW	LOW	MEDIUM	HIGH	HIGH	<24 h - ≥ 2w ∠	possible	3	impossible	5
Reversible, first aid.	1	LOW	LOW	LOW	MEDIUM	HIGH	<2 w - ≥ 1y = 3	rarely	2	possible	3
							<1 y 2	negligible	1	likely	1

Severity: The severity of the harm as an outcome of the hazard.

- 1 Scratches, bruises that are cured by first aid.
- 2 More sever injury, bruises, stabbing, which require medical attention from professionals

- 3 Normally irreversible injury. It will be slightly more difficult to continue work after healing
- 4 Irreversible injury in such a way that it will very difficult to continue work, if at all.

Frequency: The average interval between frequency of exposure to the hazard.

- 2 The interval between exposure is more than 1 year.
- 3 The interval between exposure is more than 2 weeks but less than or equal to 1 year.
- 4 The interval between exposure is more than 1 day but less than or equal to 2 weeks.
- 5 The interval between exposure is more than 1 hour but less than or equal to a1day.
- 5 The interval between exposure is less than or equal to 1 hour.
- **Duration:** Where the duration of the exposure is less than 10 minutes the value may be reduced to the next level. Where the interval is less than or equal to 1 hour, the value shall not be decreased at any time.

Probability: The probability of the occurrence of the hazardous event.

- 1 Negligible e.g. the component never fails, no possibility of human error.
- 2 Rarely e.g. it is unlikely that the component fails, human error unlikely.
- 3 Possible e.g. the component can fail, human error is possible.
- 4 Likely component will probably fail, human error is likely.
- 5 Very High component is not made for the application, human error is highly likely.

Avoidance: The possibility of avoiding or limiting harm.

- 1 Likely e.g. contact with a moving part behind an interlock guard will avoided in most cases if the interlock fails.
- 2 Possible e.g. where there is sufficient space to avoid moving machinery.
- 3 Impossible e.g. it is impossible to avoid the sudden appearance of a laser beam.

Notes on using the matrix method

The strengths of this method are:

- The analysis provides a ranking of risk.
- The method encourages the risk analyst or team to understand the hazard in order to rank the significance of the risk.

The major problems involved in applying such a method are:

• People guess levels of likelihood and consequence without sufficient analysis of the hazard or existing controls.

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• The analysis methodology is applied to a risk where the circumstances of occurrence are rare. For example, suppose a person was exposed to a hazard for a short period of time, once every 10 years. Suppose also that that hazard was almost certain to cause fatality upon each exposure. It would be incorrect to use a simple methodology whereby the likelihood of the consequences was ranked relatively lowly at once in 10 years. In that particular example the likelihood of fatality is certain once exposure occurs. An amended methodology will be required to deal with those circumstances such as the fine risk score calculator.

WARNING

The risk ratings used in this document are intended to stimulate discussion from the parties affected by the use of the subject MEWP; they shall not be adopted as the most appropriate risk rating without sufficient consideration by the designer, manufacturer, management or user of the plant.

NOTES:

1 SKYJACK Refers to SKYJACK AUSTRALIA Pty Ltd

MGMT Refers to the person legally responsible for the use of the unit; it generally means the employer, the company or the legal entity that has responsibility under the Health and Safety legislation in the State or Territory in which the unit is being used.

- 3 OP Is the operator, authorized by management and responsible for the operation and preoperational inspection and use of the unit.
- 4 MGMT/OP Is a combination of both management and operators.
- 5 MEWP The term MEWP refers to the Mobile Elevating Work Platform.

GENERAL NOTES:

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1 This Risk Assessment has been prepared for SKYJACK AUSTRALIA for the subject plant and is not transferable to other plant or parties.

- 2 Item Numbers refer to hazards, which can exist if the unit is not adequately maintained e.g. Guards not fitted, gauges fail to correctly display readings etc. The measures listed to control risks arising from this type of hazard can include reference to operating procedures. Operating Procedures cannot make the operator responsible for inadequate maintenance/repairs etc but is only intended to ensure that the procedures include the need for the operator to report any faults detected.
- 3 This Hazard Identification and Risk Assessment document has been prepared based on information available at the date of publication. In order to ensure this Hazard Identification, Risk Assessment, Risk Control document is both accurate and complete; "Management of the Unit" must review it:
 - (a) According to the particular circumstances under which the plant and/or process is used and maintained,
 - (b) As new hazards are identified or as risks are re-assessed,
 - (c) As new or revised control measures are implemented,
 - (d) As and when work procedures are altered.

Although every attempt has been made to identify reasonably foreseeable circumstances, no guarantee as to the completeness of this assessment is implied or provided.

- 4 "Preliminary" is placed in this document to indicate that the Controls listed in Columns C and E are a practicable way of controlling the risks arising out of the Hazards listed in Column B. "Preliminary" status remains in place until the "Management of the Unit" agrees that the assessment is complete and that the controls proposed are practicable.
- 5 Column H has been provided on the document to allow the "Management of the Unit" to record that their Hazard Identification, Risk Assessment, and

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Risk Control process has been completed and that all controls are in place and operating. When Column H is completed, the document becomes a record of the completeness of the process and the documentation (subject to any changes which need to be further reviewed in accordance with Item 3

- 6 The use of the word "AND" or "&" in the supplementary risk control measure column is intended to mean that the combination of risk control measures are to be implemented on the whole not in part.
- 7 The determination of risk, column D, is a subjective assessment based on the following factors: exposure the number of times humans are exposed to the risk, the probability of the hazard arising, and the consequence of the hazard death or serious injury.

<u>Risk Management</u>

Risk management is a five-step process for controlling exposure to health and safety risks associated with hazards in the workplace. To properly manage exposure to risks, a person must:

- (a) Identify hazards;
- (b) Assess risks that may result because of the hazards;
- (c) Decide on appropriate control measures to prevent or minimise the level of the risks;
- (d) Implement control measures; and
- (e) Monitor and review the effectiveness of the measures.

Hazards and risks are NOT the same thing.

A **hazard** is something with the potential to cause harm. This can include substances, plant, work processes or other aspects of the work environment. **Risk** is the likelihood that death, injury or illness might result because of the hazard.

As examples:

- The hazard is electricity—the risk is the likelihood that a worker is electrocuted because of exposure to electrical wires that are inadequately insulated.
- The hazard is a 40 kg bag—the risk is the likelihood that a worker might suffer back strain from manually lifting 40 kg bags.

• The hazard is carbon monoxide—the risk is the likelihood that a worker might suffer carbon monoxide poisoning because they are using a petrol-operated pump in a well.

When undertaking risk management:

- (a) Involve workers in the process; (it is legal requirement that all stakeholders are consulted)
- (b) Don't use it to justify a decision that has already been made;
- (c) Consider good industry practice; and be aware of the current State of Knowledge in relation to the hazard
- (d) Record any risk management activities undertaken.

Under the relevant Workplace Health and Safety Acts, to properly manage exposure to risks, a person should consider the appropriateness of control measures in the following order (sometimes referred to as the 'Hierarchy of Control'):

- (a) Eliminating the hazard or preventing the risk; or
- (b) If eliminating the hazard or preventing the risk is not possible, minimising the risk by measures that must be considered in the following order:
 - (i) Substituting the hazard giving rise to the risk with a hazard giving rise to a lesser risk;

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- (ii) Isolating the hazard giving rise to the risk from anyone who may be at risk;
- (iii) Minimising the risk by engineering means;
- (iv) Applying administrative measures; and
- (v) Using personal protective equipment.

Examples of subparagraph (iii)—redesigning work, plant, equipment, components or premises. Examples of subparagraph (iv)—training, reasonable hours of work.

The higher in the hierarchy of control, the better and more reliable the control is. In practice, several control options are often used in combination. Personal protective equipment is usually used in conjunction with other control measures.

Control measures must be implemented before work commences.

RISK ASSESSM	NT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	' (Refer to "Not	es" section)
Α	В	C			D	1 D	2 D	E	F	G	Н
Hazard No.	Hazard Description -	Is there any risk?									
-	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Avoidance	Clace	Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
)	General – Device selection and use				_					NONTOR	
U.1	Persons could be injured when following a poor system of work in relation to the operation of this device.	Operating manual provided, part number 238266ABA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine.	4	5 4	4 3	3 1	2	Prepare a documented system of work having regard to the operating specification and limitations as detailed in the owners operating manual.		MGMT/OP	
		Provision for operators manual storage included on the platform.					Ŧ	Verify that the procedure is appropriate having regard to alternative methods that may be available.	Yes	MGMT/OP	
		Maintenance Manual [238275ABA], Service Manual [238275ABA] & Parts Manual [238272ABA] provided which include maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine.					Ŧ	Verify that the procedure covers all modes of operation of the MEWP (including emergency procedures and maintenance) and is a practicable solution.	Yes	MGMT	
		Service manuals provided, part number 238275ABA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with inspection and maintenanceof the machine.						Ensure operator's manual is with the MEWP at all times.	Yes	MGMT/OP	
0.2	Persons could be injured if the device is not suitable for the required task.	Standard machine specifications included in the operators manual [Section 7].	4	5 3	3 3	3 1	1	Ensure that the unit is adequately rated in terms of capacity, height and reach, rated inclination and mass; having regard to the required task, the site conditions and the environment.	Yes	MGMT/OP	
							HIGH	Ensure the unit is suitable to operate in the work environment having regard to the possibility of exhaust emissions, exposure to wind, ground/floor capacity and proximity live electrical apparatus.	Yes	MGMT/OP	
								Source another MEWP if the specifications do not match the requirements for the task.	Yes	MGMT/OP	
0.3	Persons could be injured or injure others when operating the unit without sufficient information, instruction, training and supervision.	Operating manual provided, part number 238266ABA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine.	4	4 3	3 3	3 1	0	Ensure that all Standard Work Procedures (SWP's) are effectively implemented.	Yes	MGMT/OP	
		Instruction in Operators Manual [p. 9] to operate in accordance with the manual.						Ensure that the operator(s) have read and understand the training and instructions (which must include Manufacturer's and local information).	Yes	MGMT/OP	
		Warning in manual [p. 9] that the MEWP is only to be used by personnel who hold the necessary work permits and/or licenses.					Ŧ	Ensure that the MEWP is only operated by personnel who are appropriately trained and certified.	Yes	MGMT/OP	
		Warning in operator's manual [p. 9] that the MEWP is only to be used by authorised personnel who are qualified, trained and certified to operate the machine. Warning in operator's manual [p. 9] that only personnel who have read and understand the operating					BH				
		instructions contained within the operator's manual are permitted to use the MEWP. Warning in operator's manual [p. 10] that the operator must obey all laws, regulations and job site muse.									
		Nurses. Warning in operator's manual [p. 9] that all personnel shall read, understand and follow the instructions in the manual before operating or performing maintenance on the MEWP. Minimum operator oualifications are listed in the operator's manual [p. 9].									
0.4	Injury as a result of site specific hazards.	List of typical site specific hazards to be checked is included in the operator's manual [p. 19].		4 3		1 8		Ensure that operators are aware of the requirements of AS2550.10.	Yes	MGMT/OP	
		AS2550.10 – 2006 section 4 includes a list of site checks to be undertaken by the operator.	4	4 3	3 1			Implement appropriate training to enable operators to identify particular hazards that may be encountered at the site and implement actions to ensure that they are addressed by appropriate means.	Yes	MGMT/OP	
		Warning in operator's manual [p. 19] that a survey of the work area should be performed for hazards such as for electric power lines., check for drop offs, concealed holes, and overhead obstructions.						Ensure a site hazard assessment is conducted before use on each site.	Yes	MGMT/OP	
		Warning in operator's manual [p. 9] that the operator must know all national, state or territorial and local rules which apply to operation of the MEWP and jobsite.					HGI	Ensure appropriate systems are implemented to eliminate the hazards or adequately control the risks associated with the hazards identified.	Yes	MGMT/OP	
								Ensure operators feedback information relating to new hazards they have identified so they may be reviewed and implemented in a training package.	Yes	MGMT/OP	
								Ensure that if operators are uncertain how to address a particular site hazard that they seek advice from a competent person.		OP	
0.5	Hazards arising from lack of, or inadequate emergency procedures.	Emergency retrieval procedures are detailed in the operator's manual [p. 71].	4	1 3	3 3	3 7	7	Ensure operators are trained in emergency retrieval and operation.	Yes	MGMT/OP	
		Decal fitted adjacent to the emergency controls explaining the operation [173187, 218494].					HIGH	Ensure that refresher training is undertaken by operators on a regular basis. Ensure that ground personnel are present who are trained in the	Yes Yes	MGMT/OP MGMT/OP	
0.6	Hazards arising from working alone.	Instructions provided in AS2550.10 - 2006 clause 5.14 regarding the assistance that shall be		+	_	+		Ensure that ground personnel are present who are trained in the emergency lowering procedures. Establish protocols and procedures to ensure a timely and appropriate	Yes Yes	MGM1/OP MGMT	
	- •	available from ground support personnel prior to operation.	4	3 3	3 1	1 7	′	response in emergencies in accordance with AS2550.10 requirements.			
							HGH	Ensure that workers do not work solo, if not practicable ensure that al operators working solo are equipped with portable communications equipment.	6	MGMT	
) 7	Personnel are injured due to unsufferinged use	Key switch provided in accordance with AS1418.10 2014 elever 2.2.14						Ensure all operators report in when attending site and on a routine basis thereafter.	Yes Yes	MGMT MGMT/OP	
)./	Personnel are injured due to unauthorised use.	Key switch provided in accordance with AS1418.10 – 2011 clause 2.2.14.	3	2 3	3 1	16	3 2	Ensure that workplace procedures are established regarding securing the MEWP at the end of each day.	Yes	MGM1/OP	

RISK ASSESSM	ENT: SKYJACK SJ45AJ+ & SJ60AJ+			_			_			PRELIMINARY	(Refer to "Not	
А	В	C				D1	D2	D	E	F	G	Н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk	osed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
		Instruction in Operators Manual [p. 16] to remove key to prevent unauthorised use.							ne MEWP is secured against unauthorised use at the er or when it is left unattended.	nd Yes	OP	
		Battery cut-out switch provided.										
0.9	Persons injured due to unrecognised hazard.	Preliminary Hazard ID prepared and provided for review.	2	2	3	3	8	operation to b			MGMT/OP	
									d ID as necessary (see notes on page 1).	Yes	MGMT	
								implement ris	sk control measures having regard to the hierarchy res available	of Yes	MGMT/OP	
								Regularly revi	ew Hazard ID and update as required.	Yes	MGMT/OP	
1	Mechanical hazards (due to events that may a	rise during normal operation)	•								•	
1.1	Crushing hazard											
1.1.1	Operator is crushed or suffers impact injury whilst operating the extending structure.	Operator's position located away from mechanical hazards in accordance with AS1418.10 - 2011 clause[s] 2.6.2 & 2.6.4.	4	1	4	1	6	Ensure that appropriate sp	operators, observe the surroundings and move beeds.	at Yes	OP	
		Controls are fitted in the platform and provide the operator with a clear line of sight of the intended path of the platform.							ensure ground personnel are present to warn operat tial obstructions and take corrective or emergency action		MGMT/OP	
		Warning in Operators Manual [p. 17, 66, 69] to be aware of blind spots.						Ensure a safe	work method statement is prepared if the MEWP is to be perations where overhead hazards exist.	e Yes	MGMT/OP	
		Warning in Operators Manual [p. 17] to beware of crushing hazards between guardrails and						5				
		obstructions. Warning in Operators Manual [p. 17] to beware of overhead hazards.						Ξ				
		Warning in Operators Manual (p. 17) to beware of wornead nazards. Warning in Operators Manual (p. 19) to be aware of moving equipment										
		Warning in Operators Manual [p. 5], 60] to never lower without checking for persons/obstacles.										
		Warning in Operators Manual [p. 18] to not permit horseplay.										
		Instruction in Operators Manual [p. 56] to test secondary guarding system.										
1.1.2	Operator is crushed or suffers impact injury during travelling.	Control positions afford the operator visual contact with all resulting movements, platform and chassis.	4	1	2	3	6		operators, observe the surroundings and move	at Yes	MGMT/OP	
		Platform controls are arranged so that the operator must be standing in front of the control panel to			-	-	Ĩ	appropriate sp	peeds. operators avoid kerbs or depressions that could result	in Yes	OP	
		actuate travel control functions.							ents of the platform when travelling.	in res	OF	
		Anti-entrapment (secondary guarding) system fitted which prevents further aggravating boom							ensure ground personnel are present to warn operat		MGMT/OP	
		movements if the system is activated by the operator's body.						against poten necessary.	tial obstructions and take corrective or emergency action	IT		
		Warning in Operators Manual [p. 17] to beware of overhead hazards.										
1.1.3	Operators crushed due to inadvertent operation.	Controls comply with AS1418.10 – 2011 clause 2.6.	3	2	1	3	6		ols and their marking.	Yes	MGMT/OP	
		Function enable switch provided which must be pressed and held for controls to be activated (two separate actions required for movement to take place). All controls are of the hold to run type and return to neutral on being released.						Ensure operat	tors are familiar with the control layout and function.	Yes	MGMT/OP	
		Upper & Lower controls require two deliberate and simultaneous actions by the operator before they function.						MEDIC				
		The direction of movement resulting from each control is clearly marked beside the control and controls are arranged for logical operation as far as possible.										
.1.4	Handa an abad between the platform and shate starts and a	Symbols used for marking comply with ISO20381. The platform controls are positioned within the platform guard rails and at least 50mm below the tap	\vdash		_		_	English that	mannal are trained with reart to this bard	Yes	MGMT/OP	
1.1.4	Hands crushed between the platform and obstructions while operating the extending structure.	The platform controls are positioned within the platform guard rails and at least 50mm below the top guard rail.	3	2	1	1	4	Ensure that pe	ersonnel are trained with respect to this hazard.	res		
		Platform is fitted with hand holds within the platform.							onal ground personnel are present to observe and wa inst potential obstructions.	rn Yes	MGMT/OP	
		Proportional controls used to enable precise platform movement when controls are activated.						S Ensure that pe	ersonnel are trained to look in the direction of travel.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 17] to beware of crushing hazards between guardrails and obstructions.										
		Warning decal [173024] fitted which identifies possible hand crush zone.										
1.1.5	Operator crushed as a result of MEWP sliding down a ramp or	Warning in Operators Manual [p. 17] not to drive on or near uneven terrain or unstable surfaces.						Ensure operat	tors are well trained in regards to the potential hazard.	Yes	MGMT/OP	
	other slippery surface.	Warning in Operators Manual [p. 17] not to exceed the gradeability.	3	2	1	1	4		P is not set up on ramps or other slippery surfaces.	Yes	OP	
		Warning in Operators Manual [p. 18] not to operate slippery surfaces			1			8 0		1		
		Warning in Operators Manual [p. 68] describing driving on a slope.			1			-				
		Instruction in Operators Manual [p. 72] describing operation of the tilt alarm and how to recover the										
1.1.6	Operator crushed or suffers impact injury as result of incorrect	boom. Direction arrows fitted to platform controls and chassis.		_	_		_	Train operator	rs to be aware of these hazards.	Yes	MGMT	
	travel direction.		3	2	1	1	4	3				
		Decal fitted [218494] to controls which clearly indicate the direction of actuator movement for desired travel direction.						direction arrov	tors are familiar with the system and to follow/observe the vs on the MEWP.		MGMT/OP	
1.1.7	Ground personnel crushed whilst machine is operating during normal use.	Motion alarm (beeper) is fitted which sounds when the MEWP is in motion.	3	3	1	1	5	Ensure that th	e area around the MEWP is controlled and barricaded.	Yes	MGMT/OP	
		Projecting extremities are identified with hazard tape.						Ensure that g operation.	round personnel keep clear of the MEWP while it is	in Yes	OP	

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Α	В	C				D1 I	D2	DE	F	G	н
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or iilness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
I		Control positions provide the operator with visual contact with the resulting platform movements.						Ensure that personnel are trained with respect to this hazard.	Yes	MGMT	
		Warning in Operators Manual [p. 17, 66, 69] to be aware of blind spots.						Ensure that personnel do not enter the area underneath the platform.	Yes	OP	
		Warning in Operators Manual [p. 51, 60] to never lower without checking for persons/obstacles.									
1.0	Observing berned	Decal fitted [172680] not to enter area underneath a raised platform.									
1.2 1.2.1	Shearing hazard Personnel injured due to shear hazard at elevating mechanism	Operator located away from bazard during normal operation	T T	T	T			Ensure personnel are trained and aware of this hazard.	Yes	MGMT/OP	
1.2.1	(booms, mast, articulating/scissor arms etc.).	Operator located away non nazard during normal operation.	3	2	1	1	4		165	MGMI/OF	
		Audible alarm fitted which sounds whenever the platform is lowering.						Ensure that personnel keep clear of moving parts whilst the MEWP is in motion.	Yes	OP	
	-	Warning labels fitted at shear hazard locations [137988].									
1.2.3	Exposure to pinch points/shear points while extending the platform.		1	3	2	3	8	Ensure that operators are aware of the residual risks. Ensure that the instructions provided in the operator's manual are	Yes Yes	MGMT/OP MGMT/OP	
1.2.4	Shear hazard to personnel closing guards, engine covers or	Handles provided on the guard/cover.	$\left \right $	2	1	3		followed. Ensure that operators are aware of the residual risks.	Yes	MGMT/OP	
	battery doors.	Gas strut provided to assist in supporting the mass of the cover.	1	2	1	3	6	8 			
I		Warning labels fitted at shear hazard locations [137988].						<u> </u>			
1.3	Cutting or severing hazard		1								
1.3.1	Cuts from sharp edges arising from damaged platform		1 1	1	1	- 1		S Ensure that any damage to the MEWP is rectified to remove sharp	Yes	MGMT/OP	
	components		1	2	1	3	6	edges.			
1.4	Entanglement hazard										
1.4.1	Hazard number not used.	See 11.1									
	Drawing-in or trapping hazard										
1.5.1	Hazard number not used.	See 11.1									
1.6 1.6.1	Impact hazard Impact injury to personnel from MEWP collision with vehicular	Hazard marking fitted to projecting extremities	1 1	_	_	- T	_	Implement a traffic management system.	Yes	MGMT/OP	
	traffic.	An audible alarm sounds whenever the MEWP is in motion.	1	2	2	3	7	Ensure a traffic management system is enforced, should the MEWP be	Yes	MGMT/OP	
		Warning in manual regarding the residual hazard of traffic on-site [p. 19].						exposed to vehicular traffic.			
I		Instruction in Operators Manual [p. 9] that operators are to be qualified, trained and certified.						<mark>2</mark>			
I		Instruction in Operators Manual [p. 10] to obey all laws, regulations and job site rules.									
I		Warning in Operators Manual [p. 77] to take caution when travel on public roads is required.									
1.7	Stabbing or puncture hazard							NS			
1.8	Friction or abrasion hazard							NS			
1.9	High pressure fluid injection hazard										
1.9.1	Injury as a result of a high pressure hydraulic leak while operating or maintaining the MEWP.	Operator is located away from hydraulic components.	1	2	1	3	6	Ensure that personnel are properly trained and aware of the hazard.	Yes	MGMT/OP	
		A pressure relief valve is installed which limits the maximum system pressure.						Ensure that the correct pressure setting is maintained as per the operation manual instructions.	Yes	MGMT/OP	
		Pipes and connections designed for twice maximum pressure.						Ensure that personnel are trained with respect of this hazard and do not place hands or other body parts in front of escaping hydraulic fluid.	Yes	MGMT/OP	
		Burst pressure of hoses at least three times the maximum pressure.						Ensure that the correct pressure setting is maintained as per the operation manual instructions.	Yes	MGMT/OP	
		Warning in service manual regarding the danger of injury from injection of high pressure hydraulic fluid [p. 15].	I					Ensure that SWP's for maintenance include first aid requirements for such injuries.	Yes	MGMT/OP	
		Warning in service manual [p. 10] that only trained personnel are permitted to service MEWP.						odon injuneo.			
I		Instruction in service manual to depressurize system [p. 15].									
	Ejection of parts							NS			
							_	T			
1.11	Loss of stability (of machinery and machine parts)									MONT	
1.11	Loss of stability (of machinery and machine parts) Persons could be injured as a result of instability or overturning.	MEWP stability is calculated and tested in accordance with AS1418.10 – 2011 clause 3.6.3.	4	2	1	3	6	Train operators in respect of proper siting and precautions necessary to ensure stability.	Yes	MGMT	
1.11	Loss of stability (of machinery and machine parts) Persons could be injured as a result of instability or overturning. Overturning due to overload: See 19.2		4	2	1	3	6	ensure stability. Ensure that operators read and understand the instructions and precautions listed in the operator's manual prior to use.	Yes	MGMT/OP	
	Loss of stability (of machinery and machine parts) Persons could be injured as a result of instability or overturning.	3.6.3.	4	2	1	3	6	ensure stability. TRSure that operators read and understand the instructions and precautions listed in the operator's manual prior to use. Ensure that thorough site checks are performed prior to operation.	Yes Yes	MGMT/OP MGMT/OP	
1.11	Loss of stability (of machinery and machine parts) Persons could be injured as a result of instability or overturning. Overturning due to overload: See 19.2	3.6.3.	4	2	1	3	6	ensure stability. Ensure that operators read and understand the instructions and precautions listed in the operator's manual prior to use.	Yes	MGMT/OP	

	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C				D1	D2	DE	F	G	н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALKEADT implemented	Severity	Frequency	Probability	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
1.12.1	Operator falls whilst accessing the platform.	Access ladder providing access to the platform is provided in accordance with AS1418.10 - 2011 clause 2.5.8.	2	4	2	3	9	Ensure operators maintain 3 points of contact when accessing the platform.	e Yes	OP	
		Warning in Operators Manual [p. 19] not to exit platform when raised.						Ensure that the platform is only entered or exited when it is fully lowered.	Yes	OP	
		Warning in Operators Manual [p. 19, 67] to exit using generally 3 points of support.						Ensure operators a physically capable of operating the MEWP, including being able to enter and exit the work platform, without endangering themselves or others.	Yes	MGMT/OP	
1.12.5	Personnel slip on platform floor.	Platform floor has a non-slip surface.	2	3	2	3	8	Ensure the work platform floor is clear of debris and clean.	Yes	OP	
i								Ensure that any damage is repaired immediately.	Yes	MGMT/OP	
2	Electrical hazards										
	Electrical contact (direct or indirect)										
2.1.1	Persons could be injured due to contact or approach to live overhead electrical apparatus.	Warnings and instructions in AS2550.10 – 2006 clause 5.8.	4	3	3	3	9	Ensure that No-go zones and/or clearances and conditions permitted according to local regulation are observed.	Yes	MGMT/OP	
		Legislative requirements to maintain clearances.						Ensure that operators are trained with respect to the hazard posed by overhead electrical conductors and equipment.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 15] that the machine is not insulated						Ensure spotters are present to warn operator of getting too close to overhead conductors.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 15] to obey regulations regarding required clearances from electrical conductors.						5			
		Instruction in Operators Manual [p. 15, 19] to check for electric power lines.									
		Safe approach distances are listed in the operator's manual [p. 15]. Warning in operators manual [p. 15] not to operate near power lines and to maintain minimum safe									
		approach distances.									
		Clearance distance labels [161631] are fitted at platform.									
		Warning label fitted [172693] at chassis and platform that MEWP is uninsulated. Main power disconnect switch fitted.							, v	NOUTOD	
2.1.2	Persons could suffer an electric shock due to fault with AC power supply to battery charger.		4	2	2	3	7	Ensure personnel are trained with respect to this residual risk.	Yes	MGMT/OP	
2.1.4	Persons could be injured if the unit is operated while in a confined space forcing reduced clearances.	Warning in Operators Manual [p. 15] that the machine is not insulated	4	2	1	3	6	Establish operating procedures to minimize risk when using machine in confined space.	Yes	MGMT/OP	
		Clearance distance labels [161631] are fitted at platform.						Review operating procedures routinely to ensure they can be maintained and followed. Instruct personnel in respect to the revisions made.	Yes	MGMT/OP	
								Revise procedures if necessary.	Yes	MGMT/OP	
I								Instruct personnel in respect of revisions.	Yes	MGMT/OP	
2.1.5	Operator electrocuted as a result of conductive materials carried in basket/platform.		4	2	1	3	6	Ensure operators are trained with respect to the hazard.	Yes	MGMT	
								Ensure minimum safe approach distances are maintained.	Yes	OP	
								Ensure ground crew is presence to spot potential electrical hazards. Ensure that conductive materials are not carried in the platform where	Yes	MGMT/OP	
								overhead electrical hazards are located.	res	MGM1/OP	
2.2	Electrostatic phenomena							vs			
2.3	Thermal radiation						1	vs			
2.4	External influences on electrical equipment		-								
2.4.1	Uncontrolled motions due to interference with control signal inputs or false input commands in high-frequency electromagnetic fields.	The electrical installation is designed to comply with the requirements of the EMC directive (2004/108/EC).	2	2	2	3	7	Ensure that the MEWP is not used in environments which include strong electro-magnetic fields unless written approval is obtained from the manufacturer	Yes	MGMT/OP	
	orea annagriada manas.							Ensure that radio transmitters and similar equipment are not used when operating the machine.	Yes	MGMT/OP	
1			1								
3	Thermal hazards										
3	Thermal hazards Burns and scalds by contact of persons with flame	s or explosions and also with radiation from heat sources									
		s or explosions and also with radiation from heat sources Warning in Operators Manual [p. 19, 75, 92] not to operate the machine or charge batteries in hazardous locations.	4	2	2	3	7	Ensure unit is not used in a hazardous environment unless it has been suitably modified by the manufacturer or a competent organisation.	Yes	MGMT/OP	
	Burns and scalds by contact of persons with flame	Warning in Operators Manual [p. 19, 75, 92] not to operate the machine or charge batteries in	4	2	2	3	7	suitably modified by the manufacturer or a competent organisation.	Yes Yes	MGMT/OP OP	
3.1.1	Burns and scalds by contact of persons with flame While working in an explosive atmosphere. Personnel suffer burns due to contact with hot engine	Warning in Operators Manual [p. 19, 75, 92] not to operate the machine or charge batteries in hazardous locations.		2		3	7	suitably modified by the manufacturer or a competent organisation.			
3.1.1	Burns and scalds by contact of persons with flame While working in an explosive atmosphere.	Warning in Operators Manual (p. 19, 75, 92) not to operate the machine or charge batteries in hazardous locations. Instruction in Operators Manual (p. 19) to check hazardous atmospheres. Engine is covered.				-	7	suitably modified by the manufacturer or a competent organisation. Ensure sufficient ventilation is provided before using MEWP in hazardous locations. Ensure that personnel are trained with respect to the residual hazard.	i Yes	OP	
3.1.3.1.1 3.1.2 3.1.3	Burns and scalds by contact of persons with flame While working in an explosive atmosphere. Personnel suffer burns due to contact with hot engine	Warning in Operators Manual [p. 19, 75, 92] not to operate the machine or charge batteries in hazardous locations. Instruction in Operators Manual [p. 19] to check hazardous atmospheres.	1		1	-	7 6 6	suitably modified by the manufacturer or a competent organisation. Ensure sufficient ventilation is provided before using MEWP in hazardous locations.	Yes Yes	OP MGMT	

	ENT: SKYJACK SJ45AJ+ & SJ60AJ+							PRELIMINARY	' (Refer to "Not	es" section)
Α	В	C			D1	D2	DE	F	G	Н
Hazard No.	Hazard Description -	Is there any risk?	ity ncv	ility	ince	Class	avei -	Are the control measures	For Action by	Confirmation that th
	(the situation or parts of plant which could cause injury or illness)	Describe the fisk control measures ALKEAD Finiplemented	Severity Frequency	Probability	Avoidance	Ċ	Proposed SUPPLEMENTARY risk control measure	practicable? Yes/No	Whom	necessary action ha been completed
1.4	Operators suffer burns because of fire or explosion whilst carrying fuel or other explosive substances in platform.	Warning in operator's manual [p. 75] to have a fire extinguisher and first aid kit ready.	3 2	2	3	7	Ensure no explosive materials or fuel is stored on platform durin operation.	5	OP MGMT/OP	
		Warning in Operators Manual [p. 41, 75] to refuel and charge the battery in a well ventilated area, away from sparks and flames.	\vdash				Ensure that a first aid kit and extinguisher available.	Yes		
1.5	Personnel injured by fire or explosion while smoking in platform or around flammable liquids at worksite.	Standard SWPs apply. Warning in Operators Manual [p. 41, 75] to refuel and charge the battery in a well ventilated area, away from sparks and flames.	3 2	2	3	7	Ensure that a first aid kit and extinguisher available. Identify potential sources of fuel/hazard during site-specific hazard ID.	Yes	MGMT MGMT/OP	
		No smoking decal fitted [138146]. Fuel tank identification decal fitted [173413].					**			
1.6	Personnel injured as a result of MEWP fire.	Standard SWPs apply.	1 2	1	3	6	Ensure a fire extinguisher is avaialble.	Yes	MGMT/OP	
		Warning in operator's manual [p. 75] to have a fire extinguisher and first aid kit ready.					Ensure that personnel are familiar with the firefighting procedures listed in the operator's manual.		MGMT/OP	
			1				Implement a fire safety plan.	Yes	MGMT/OP	
							Train personnel in the use of the fire extinguisher.	Yes	MGMT/OP	
.1.7	release valve.	Brake release valve is positioned away from hot components.	1 1	2	3	6	Ensure the correct PPE is worn when handling hot components.	Yes	MGMT/OP	
2	Health-damaging effects from hot or cold work env									
2.1	Operator injured due to extreme cold or hot temperatures.	Standard Job site procedures apply.	1 2	2	3	7	Ensure operators are provided the appropriate PPE for the workin environment.		MGMT	
		Danger note in Operators Manual [p. 15] to use PPE. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules					Ensure that the period of exposure is kept within acceptable levels.	Yes	MGMT/OP	
		regarding use of PPE. Environmental limits specified in manual [Section 7].								
	Hazards generated by noise									
1	Hearing loss (deafness), other physiological disord	ers (e.g. loss of balance, loss of awareness, etc.)								
.1.1	Noise generated by machine causes hearing loss to operators.	The maximum guaranteed sound power level (<104 dBA using ISO 4871 methods) and the sound pressure level (<76 dBA using ISO 3744 methods) is specified in the operator manual. [p.92 (SJ45AL+), 92 (SJ60AL+),]	1 4	2	3	9	Ensure that if noise exposure exceeds acceptable levels that either exposure that is worn and/or the operators are removed from the nois environment.		MGMT/OP	
10		Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE.	\square						MONT	
1.2	Noise generated by machine causes hearing loss to bystanders.	The maximum guaranteed sound power level (<104 dBA using ISO 4871 methods) and the sound pressure level (<76 dBA using ISO 3744 methods) is specified in the operator manual. [p.92 (SJ45AJ+), 92 (SJ60AJ+),]	1 2	1	3	6	Competent person to assess the noise impact on bystanders taking in consideration the environment and other machines operating nearby.	to Yes	MGMT	
2	Interference with speech communication, acoustic	signals, etc.				_				
2.1	Injuries exacerbated as a result of insufficient communication						Ensure that all operators are equipped with portable communication equipment where necessary.	ns Yes	MGMT	
	procedures or equipment on job sites where noise can affect communication.		1 2	1	3	6	equipment where necessary.	100	MOMT	
			1 2	1	3	6	Establish protocols and procedures to ensure a timely and appropria response in emergencies.	te Yes	MGMT/OP	
	communication.		1 2	1	3	6	Establish protocols and procedures to ensure a timely and appropria	te Yes		
	communication. Hazards generated by vibration		1 2	1	3	6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance	te Yes	MGMT/OP	
	communication. Hazards generated by vibration Vibration caused by machinery		1 2	1	3	6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used.	te Yes es Yes	MGMT/OP MGMT/OP	
	communication. Hazards generated by vibration	The vibration measured at the upper limbs does not exceed 2.5 m/s2 (RMS) and the vibration exerted on the operator's body does not exceed 0.5 m/s2 (RMS).	1 2		3	6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance	te Yes es Yes	MGMT/OP	
	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP.				3		Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used.	te Yes es Yes	MGMT/OP MGMT/OP	
1.1	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation	on the operator's body does not exceed 0.5 m/s2 (RMS).			3		Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used.	te Yes es Yes	MGMT/OP MGMT/OP	
1.1 .1	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration.			3		Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration.	te Yes es Yes nt Yes	MGMT/OP MGMT/OP MGMT/OP	
1.1 1	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply.			3		Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations.	Ite Yes es Yes int Yes	MGMT/OP MGMT/OP MGMT/OP MGMT	
1.1 1	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration.	1 2				Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that to roly trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir	Ite Yes es Yes Int Yes /P Yes Yes	MGMT/OP MGMT/OP MGMT/OP	
.1.1 	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from the platform or to the MEWP.	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply.	1 2			6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that only trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir tasks.	Ite Yes es Yes Int Yes /P Yes Yes	MGMT/OP MGMT/OP MGMT/OP MGMT MGMT/OP	
.1.1 i. .1 .1.1 .2	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from the platform or to the MEWP. Lasers	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply.	1 2			6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that tonly trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir tasks.	Ite Yes es Yes Int Yes /P Yes Yes	MGMT/OP MGMT/OP MGMT/OP MGMT MGMT/OP	
6.1.1 6.1 6.1 6.2 6.2	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from the platform or to the MEWP. Lasers Ionizing radiation sources	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply. Warning in Operators Manual [p. 15] not to use the machine as a ground for welding.	1 2			6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that only trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir tasks.	Ite Yes es Yes Int Yes /P Yes Yes	MGMT/OP MGMT/OP MGMT/OP MGMT MGMT/OP	
5 5.1 5.1.1 3 5.1 5.1 5.1 5.2 3.3 5.4 5.4	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from the platform or to the MEWP. Lasers Ionizing radiation sources Machines using high-frequency electromagnetic file	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply. Warning in Operators Manual [p. 15] not to use the machine as a ground for welding.	1 2			6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that only trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir tasks. NS	te Yes es Yes nt Yes /P Yes ng Yes	MGMT/OP MGMT/OP MGMT/OP MGMT MGMT/OP OP	
.1.1 ; .1 .1.1 .2 .3	communication. Hazards generated by vibration Vibration caused by machinery Vibration caused by MEWP. Hazards generated by radiation Electrical arcs Operators suffer radiation burns caused by welding either from the platform or to the MEWP. Lasers Ionizing radiation sources Machines using high-frequency electromagnetic fle Hazards caused by emission of EMF	on the operator's body does not exceed 0.5 m/s2 (RMS). Statement provided in operators manual [p. 92] regarding whole body vibration. Standard welding SWP's apply. Warning in Operators Manual [p. 15] not to use the machine as a ground for welding.	1 2	2	3	6	Establish protocols and procedures to ensure a timely and appropria response in emergencies. Ensure that effective communication can be maintained in all instance where the unit is used. Ensure that use of the machine in continuous shifts is limited to preve operator fatigue which may result from exposure to machine vibration. Ensure that SWP's are developed and followed when using the MEW for welding operations. Ensure that tonly trained personnel perform welding tasks. Ensure that the correct PPE is worn by personnel performing weldir tasks.	te Yes es Yes nt Yes P Yes Yes ng Yes	MGMT/OP MGMT/OP MGMT/OP MGMT MGMT/OP	

RISK ASSESSM	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C			D	1 D2	D	E	F	G	Ĥ
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or illness)		Severity	Probability	Avoidance	Class	Proposed SUPPLEN 양값	IENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that th necessary action ha been completed
.1.1	Persons could be injured if the unit is operated indoors without adequate ventilation.	Warning in Operators Manual [p. 16] to always operate in a ventilated area.	2	2 2	3	7	Ensure that the unit is operated	d only in well-ventilated areas.	Yes	MGMT/OP	
.1.2	Operator suffers injuries caused by inhalation of hydrogen gas from batteries.	Battery shielded from operating positions.	2	2 2	3	7	Ensure operators are made av	vare of the potential hazard.	Yes	MGMT	
		Warning in Operators Manual [p. 41] to refuel and charge the battery in a well ventilated area, away from sparks and flames.	1				Ensure MEWP batteries are c	harged in well ventilated areas.	Yes	MGMT/OP	
							Ensure that only trained per batteries.	sonnel conduct maintenance on or near	Yes	MGMT/OP	
							Ensure that proper maintena working near batteries.	ance procedures are implemented when	Yes	MGMT/OP	
							Ensure the correct PPE maintenance on batteries.	is worn by all personnel performing	Yes	MGMT/OP	
.1.3	Personnel suffer skin irritations due to contact with operating fluids or materials used in the MEWP.		1 :	3 2	3	8	Ensure operators are made av	vare of the potential hazard.	Yes	MGMT	
							Ensure appropriate PPE is wo	rn by personnel.	Yes	OP	
							Ensure that safety data she	ets are obtained from the manufacturer	Yes	MGMT	
	-						where required.				
7.1.4	Burns as a result of exposure to hot oil.		1	3 2	3	8	5		Yes	MGMT	
							Ensure that the appropriate PF	PE is worn by personnel.	Yes	MGMT	
7.2	Fire or explosion hazard										
7.2.1	Explosion hazard resulting from vapours emitted during battery charging.	Batteries are well ventilated in accordance with AS1418.10 – 2011 clause 2.2.21.	2	1 2	3	6	Ensure that the appropriate PF		Yes	MGMT/OP	
		Battery isolation switch fitted.					Ensure that the battery is disco	onnected before charging	Yes	MGMT	
		Warning in Operators Manual [p. 41] to wear ppe when maintaining batteries. to wear PPE when maintaining batteries.	۱				Ľ				
		Warning decal fitted [119674] which states to disconnect battery before servicing.									
.2.2	Personnel injured whilst refuelling MEWP.	Fuel filler point is located away from heat sources in accordance with AS1418.10 - 2011 clause	4	2 2	: 3	7	Ensure standard refuelling pra	ctices are adhered to.	Yes	MGMT/OP	
		2.2.20. Warning in Operators Manual [p. 41, 75] to refuel and charge the battery in a well ventilated area	,				Ensure operators wear approp	priate PPE while refueling.	Yes	MGMT/OP	
		away from sparks and flames.					Ensure operators are trained v	vith respect to the residual hazards.	Yes	MGMT/OP	
73	Biological and microbiological (viral or bacterial) h						NS				
7.3	· · · · · · · · · · · · · · · · · · ·						NS				
3	Hazards generated by a mismatch of machine Unhealthy postures or excessive efforts.	ry with human characteristics and adilities.									
5.1 3.1.1	Excessive effort required to climb into work platform.	Platform can be lowered to within 400mm of the ground.	1 1	1	T	1	Ensure that operators always	use 3 points of contact when entering and	Yes	MGMT/OP	
5.1.1	Excessive enorrequired to climb into work platform.	Warning in Operators Manual [p. 19, 67] to exit using generally 3 points of support.	1 ·	4 1	5	10	egress of the work platform.	use 5 points of contact when entening and	165	MGM170F	
3.2	Inadequate consideration of human hand-arm or fo										
							NS				
	Neglected use of personal protection equipment	otreg anatomy.					NS				
	Neglected use of personal protection equipment	• •		1	1			ation for appropriate LIV protection and its	Yes	MGMT/OP	
	Neglected use of personal protection equipment Persons could be injured due to exposure to UV.	Standard practices apply.		3 2	3	8	Develop and provide specifica use.	ation for appropriate UV protection and its	Yes	MGMT/OP	
		• •		3 2	: 3	8	Develop and provide specifica use. Provide UV protective equ sunscreen.	ipment including hat, sunglasses and	Yes	MGMT/OP	
3.3.1	Persons could be injured due to exposure to UV.	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE.		3 2	: 3	8	Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requi	ipment including hat, sunglasses and rements for its use.	Yes	MGMT/OP MGMT/OP	
3.3.1		Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule:	5	3 2 3 2		8	Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requii Provide specification for ap	ipment including hat, sunglasses and	Yes	MGMT/OP	
3.3.1	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE.	5				Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requii Provide specification for ap	ipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety potwear as appropriate for the workplace.	Yes	MGMT/OP MGMT/OP	
.3.1	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules	3				Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requin Provide specification for ap glasses, hard hat and safety for	ipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety potwear as appropriate for the workplace. rements for its use.	Yes Yes Yes	MGMT/OP MGMT/OP MGMT	
3.3.1 3.3.2	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2.	3		: 3	8	Develop and provide specifica use. Provide UV protective equisunscreen. Instruct operators on the requii Provide specification for ap glasses, hard hat and safety for Instruct operators on the requii Ensure appropriate PPE is wo	ipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety potwear as appropriate for the workplace. rements for its use.	Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT MGMT	
3.3.1 3.3.2	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE.	3	3 2	: 3	8	Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requii Provide specification for ap glasses, hard hat and safety for Instruct operators on the requii Ensure appropriate PPE is wo Ensure that if noise exposure protection is worn and/or the	iipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety ootwear as appropriate for the workplace. rements for its use. m. exceeds acceptable levels that either ear	Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT MGMT OP	
8.3 3.3.1 3.3.2 3.3.3	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard SWP's apply. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule:	5 3 : 5 3 :	3 2	: 3	8	Develop and provide specifica use. Provide UV protective equ sunscreen. Instruct operators on the requii Provide specification for ap glasses, hard hat and safety for Instruct operators on the requii Ensure appropriate PPE is wo Ensure that if noise exposure protection is worn and/or the	iipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety ootwear as appropriate for the workplace. rements for its use. m. exceeds acceptable levels that either ear	Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT MGMT OP	
3.3.1 3.3.2	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear protection in noisy environment.	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules Standard Job site procedures apply. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE.	5 3 : 5 3 :	3 2 2 2	2 3 2 1	5	Develop and provide specificates. Provide UV protective equisunscreen. Instruct operators on the requiling provide specification for apglasses, hard hat and safety for a provide specification for apglasses, hard hat and safety for a provide specification and safety for a provide specification for apglasses, hard hat and safety for a provide specification for apglasses. Ensure that if noise exposure protection is worm and/or the environment.	ipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety obtwear as appropriate for the workplace. rements for its use. rm. exceeds acceptable levels that either ear a operators are removed from the noisy	Yes Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT MGMT OP	
3.3.1 3.3.2 3.3.3	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: Standard SWP's apply. Standard SWP's apply. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply.	s 3 : s 3 : s 1 :	3 2	: 3	5	Develop and provide specifica use. Provide UV protective equisurscreen. Instruct operators on the requil glasses, hard hat and safety for Instruct operators on the requil Ensure appropriate PPE is wo Ensure that if noise exposure protection is worn and/or the environment.	ipment including hat, sunglasses and rements for its use. ipropriate PPE including gloves, safety ootwear as appropriate for the workplace. rements for its use. im. exceeds acceptable levels that either ear e operators are removed from the noisy on job sight and react accordingly with g appropriate PPE.	Yes Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT OP MGMT/OP	
.3.1 .3.2 .3.3	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear protection in noisy environment. Operator could be injured if working in proximity to bright lights without sunglasses or equivalent.	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE.	s 3 :	2 2 2 2	· 3	5	Develop and provide specificative. Provide UV protective equisinscreen. Instruct operators on the require for the properties of the provide specification for a plasses, hard hat and safety for instruct operators on the require Ensure appropriate PPE is worked to the environment. Identify bright lights located setting up of MEWP or wearing Ensure operators are provided	ipment including hat, sunglasses and rements for its use. propriate PPE including gloves, safety obtwear as appropriate for the workplace. rements for its use. m. exceeds acceptable levels that either eat operators are removed from the noisy on job sight and react accordingly with g appropriate PPE. with suitable PPE.	Yes Yes Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT OP MGMT/OP	
3.3.1 3.3.2 3.3.3	Persons could be injured due to exposure to UV. Persons could be injured if equipment is operated while not wearing appropriate PPE. Operator sustains damage to hearing due to not wearing ear protection in noisy environment. Operator could be injured if working in proximity to bright lights	Standard practices apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard Job site procedures apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: regarding use of PPE. Standard SWP's apply. Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule: Standard Job site procedures apply. Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rule:	s 3 :	3 2 2 2	· 3	5	Develop and provide specificative. Provide UV protective equivalence of the system of the specification for a page specification for a pa	ipment including hat, sunglasses and rements for its use. ipropriate PPE including gloves, safety ootwear as appropriate for the workplace. rements for its use. im. exceeds acceptable levels that either ear e operators are removed from the noisy on job sight and react accordingly with g appropriate PPE.	Yes Yes Yes Yes Yes Yes	MGMT/OP MGMT/OP MGMT OP MGMT/OP	

RISK ASSESSME	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C			D	1 D	02	D E	F	G	н
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or illness)		Severity	Prohahilitv	Avoidance	Class	Dick Louid	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
		Instruction in Operators Manual [p. 16] to comply with employer, job site and governmental rules regarding use of PPE. to comply with employer, job site and governmental rules regarding use of PPE.					ME	#			
.4	Inadequate area lighting	·									
.4.1	Persons could be injured if the light on the job site is	See also 12.1	1	2 1	1 3	3 6	8	Fit lighting if the MEWP is to be used in areas of low light	Yes	MGMT/OP	
	inadequate.							Monitor lighting levels throughout the operation of the MEWP, as lighting is prone to change relative to time of day.	g Yes	OP	
5	Mental overload or under load, stress, etc.										
.5.1	Persons could be injured if the operator's performance was	Standard SWP's apply.		2 2	2 3	, Γ,	7	Implement a system to ensure that operators do not work excessive o	r Yes	MGMT/OP	
	inhibited by excessive fatigue.		2	2 2	2 3	, í	'	continuous shifts and manage peak demands. Ensure that operators do not continue use of the MEWP if they feel tired	d Yes	MGMT/OP	
								or are suffering from fatigue.			
.5.2	Operator injured because they do not possess sufficient mental capacity to operate the MEWP.		4	2 2	2 3	3 7	7	Ensure all personnel are trained with respect to machine operation.	Yes	MGMT	
								Ensure only trained personnel are permitted to operate MEWP.	Yes	MGMT/OP	
5.3	Operator injured due to inattention from boredom.		3	1 2	2 3	3 6	6	Limit shift hours.	Yes	MGMT	
							ų,	Ensure rotation of operators during shift.	Yes	MGMT/OP	
.6	Human error				-						
6.1	Operator or ground personnel injured due to "horse play" or	Warning in Operators Manual [p. 18] to not permit horseplay.	1.1					Ensure operators do not engage in horse play or stunt driving.	Yes	MGMT/OP	
	inappropriate use.	Warning in operator's manual [p. 9] that the MEWP is only to be used by authorised personnel who	-	1 2	2 3	3 6	6	Ensure that only properly trained and licensed personnel use MEWP.	Yes	MGMT/OP	
		are qualified, trained and certified to operate the machine. Warning in operator's manual [p. 9] that only personnel who have read and understand the operating						Ensure that when not in use, the platform is secured agains	t Yes	OP	
		Instructions contained within the operator's manual are permitted to use the MEWP. Instruction in Operator's Manual [p. 10] to obey all laws, regulations and job site rules.					2	unauthorised use.	. 100	0.	
6.2	Persons could be injured if the unit is operated by persons	Standard SWP's apply.					7 2	Ensure that operators do not use the MEWP while under the influence operators	f Yes	MGMT/OP	
-	under the influence of drugs and/or alcohol.			2 2	2 3	3 7	(I	alcohol or drugs.			
		Warning in the operator's manual [p. 18] that the unit is not to be operated by persons under the influence of drugs and/or alcohol.					MEL	Instruct the operator that operation while under the influence of alcoho or drugs are prohibited.	Ves	MGMT	
6.3	Persons could be injured if the operator's performance is inhibited by poor health or medication with side effects.	Standard SWP's apply.	3	2 2	2 3	3 7	7	Instruct the operator that he/she must report to the supervisor if suffering poor health and safe operating performance could be affected.	g Yes	MGMT	
	Hazard combinations					_					
.1	Injuries exacerbated as a result of insufficient procedures or equipment.	Instruction in Operators Manual [p. 67, 70] describing use of emergency power system.	4	2 1	3	3 6	6	Establish and audit routine emergency procedures.	Yes	MGMT	
	equipment.	Decal fitted adjacent to the emergency controls explaining the operation [173187].					2	Display emergency phone numbers and contact procedures at the site in ready display to the appropriate personnel.	n Yes	MGMT	
								Periodically verify emergency equipment and supplies.	Yes	MGMT	
2	Hazards caused by improper procedures following contact	See AS2550.10 – 2006 clause 5.8.4 for correct procedures following contact.			_	_		Ensure that all personnel are trained and aware of the necessary	y Yes	MGMT	
Ē	with live conductors.	Contraction in a 2000 bladde 0.0.4 for context procedures following contact.	4	1 1	3	3 5	5	procedures required following the accidental contact with live overhead conductors.	y 103	MOMT	
							9	Ensure that the unit is withdrawn from service and appropriately	y Yes	MGMT/OP	
								assessed by a competent person.			
-				_				Immediately isolate the unit for 24 hours.	Yes	MGMT/OP	
3	Operator uses a fall arrest harness system on a MEWP designed for fall restraint and MEWP overturns and crushes operators.	Recommendation in operator's manual [p. 19] for operators to wear fall restraint harness and lanyard.	4	2 1	3	3 6	6	Ensure that operators wear the correct harness and lanyard.	Yes	MGMT/OP	
	operators.	Fall arrest overturning test conducted in accordance with AS1418.10 - 2011 clause 3.6.2.					3	Ensure that operators are trained with respect to the correct usage of fal arrest and fall restraint equipment.	ll Yes	MGMT	
0	Hazards caused by failure of energy supply, b	reakdown of machinery parts & other functional disorders	· · ·		•						
0.1	Failure of energy supply (of energy and/or control										
).1.1		Instruction in Operators Manual [p. 67, 70] describing use of emergency power system.				.Τ-		Ensure operators are trained in the use of the emergency lowering	y Yes	MGMT/OP	
	energy supply.		3	2 2	: 3	5 7	' 	systems.			
		Decal fitted adjacent to the emergency controls explaining the operation [173187]. MEWP is fitted with an emergency system which does not rely on the primary power source to enable						Ensure that the emergency system is checked on a periodic basis.	Yes	MGMT/OP	
		rescue if the operator becomes trapped in an elevated position due to failure of main energy supply.									
		All solenoid valves return to the neutral position if power is lost.						Ensure that the MEWP undergoes a pre-operational inspection prior to every use in accordance with the manufacturer's instructions.	o Yes	MGMT/OP	
		Maintenance manuals [part number 238275ABA] prepared which cover all aspects of maintenance of the control and braking systems.						Ensure that the MEWP is not operated if any faults are detected during the pre-operational inspections.	g Yes	OP	
	Unexpected ejection of machine parts or fluids						N	NS			
).2											

RISK ASSESSMI	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	c			1	D1 I	D2	D E	F	G	н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the the confirmation that the necessary action has been completed
0.3.1	Uncontrolled motions due to control system failure.	Emergency stop switches fitted at the control positions.			-		_	Ensure that all pre-operational inspections are performed in accordance	Yes	MGMT/OP	
0.0.1			3	1	1	3	5	with the manufacturer's instructions prior to use.			
		Control systems designed in accordance with AS1418.10 – 2011 clause 2.6.						Ensure that all control system faults are logged and reported to service personnel.	Yes	OP	
		Solenoid control valves stop movement on power failure.					f	Ensure that the machine is not operated if any faults exist.	Yes	OP	
		Instruction in Operators Manual [p. 50] to test the emergency stop.					-	×	[]		
		Instruction in Operators Manual [p. 51, 55] to test the function enable button. Caution note in Operators Manual [p. 55] to test the foot switch.							├ ────┦		
0.4	Errors of fitting	n n u nu							iI		
0.4.1	Personnel exposed to hazards due to incorrect fitting of	Manufacturer has a quality assurance system in place which involves multiple checks of critical	3	2		3	6	Ensure that only qualified service personnel are charged with the	Yes	MGMT	
	components during manufacture.	components during the manufacturing process. Production tests are conducted in accordance with AS1418.10 – 2011 clause 3.3 upon completion of	3	2	'	3	°	maintenance of the MEWP. Ensure they follow the instructions provided in the repair manual.	Yes	MGMT	
		manufacture.					1	Σ · · · · · · · · · · · · · · · · · · ·	res	WGWI	
0.4.2	Personnel exposed to hazards due to incorrect fitting of components during repair.	Maintenance instructions provided which covers all anticipated aspects of maintenance required for MEWP.	3	2	1	3	6	Ensure that only qualified service personnel are charged with the maintenance of the MEWP.	Yes	MGMT	
	components during repair.	Detailed instructions are provided in the maintenance section which covers correct hose fitting						Ensure they follow the instructions provided in the repair manual.	Yes	MGMT/OP	
		procedures.							ĮĮ		
		Warning provided in the operator's manual that only trained and qualified personnel should perform maintenance [p. 13].					į				
		Warning in operator's manual [p. 13] to only use genuine spare parts.									
		Functional checks are listed in the maintenance manual [p. 17] which are to be conducted following hydraulic repairs.							1 1		
0.4.3	MEWP overturns because incorrect wheels/tyres have been	Warning decal fitted [124631] warning of fitting tyres which are not approved by the manufacturer.	3	2	1	3	6	Ensure that only approved wheels/tyres are fitted.	Yes	MGMT	
	fitted.	Warning in operator's manual [p. 46] that intermixing of tyres is prohibited and that only wheels/tyres	Ũ	~		Ű	Ŭ	Ensure that only qualified service personnel are charged with the	Yes	MGMT	
		approved by the manufacturer may be fitted.					1	maintenance of the MEWP.			
								Ensure they follow the instructions provided in the repair manual.	Yes	MGMT	
0.5.2	Overturn, unexpected loss of machine stability	Foom filed type fitted	<u>г г</u>	-	-	1	_	Ensure energters perform abasks of ubcala/turse before using MEWD	Vaa	MCMT/OD	
10.5.2	Due to tyre/wheel failure.	Foam filled tyres fitted.	4	2	2	3	7	Ensure operators perform checks of wheels/tyres before using MEWP.	Yes	MGMT/OP	
		Instruction in Operators Manual [p. 46] to check tyres.						Ensure that tyres are replaced as necessary with original specification.	Yes	MGMT/OP	
11	Hazards caused by (temporary) missing and/	I princorrectly positioned safety- related measures/means							<u> </u>		
1.1	All kinds of guards										
11.1.1	Personnel exposed to hazards within the engine area because	Cover fitted over engine.	1	2	1	3	6	Ensure that guards are not removed, or altered without the written	Yes	MGMT/OP	
	guard on engine is missing.			2		Ŭ	Ĭ	approval of the manufacturer. Ensure that covers are always in place prior to operation.	Yes	OP	
							-	Ensure that personnel keep clear of the turret area whilst the MEWP is	Yes	OP	
								in operation.			
11.1.2	Personnel exposed to hazards around slew gear area because guard on slew gears is missing.		1	2	1	3	6	Ensure that personnel keep clear of the turret area whilst the MEWP is in operation.	Yes	OP	
11.1.3	Unintentional activation of controls due to entanglement of	Constant pressure dead-man switch fitted which must be activated in order for elevating structure						Ensure operators are aware of the residual risk.	Yes	MGMT/OP	
	hoses or cables with joystick.	movements to occur.	3	1	1	3	5				
							i i				
		Foot activated dead-man switch fitted.					-	≥	ļ		
	All kinds of acfaty valated (protection) devices	Warning in operator's manual [p. 16] to avoid entanglement with ropes, cords or hoses.							<u>نـــــــا</u>		
1.2.1	All kinds of safety-related (protection) devices Hazards arising due to safety switches being overridden.	Safety devices are positioned to prevent easy access.	n r	_	_	-	_	Ensure that safety devices are not tampered with and are in good	Yes	MGMT	
	since being eventually		4	2	1	3	6	condition before use of machine.			
		Warning in Operators Manual [p. 15] not to modify the machine.					į	If any faults are discovered do not use machine until all faults are rectified.	Yes	MGMT/OP	
		Preoperational checks specified in Operators manual. [p. 39].						I round.			
		Decal fitted [156613] which states do not alter or disable any safety switch or device.									
1.2.2	Personnel exposed to hazards due to unauthorised alteration or interference.	Decal fitted [156613] which states do not alter or disable any safety switch or device.	4	2	1	3	6	Seek advice from the manufacturer or a competent person for all modifications/repairs considered during life of MEWP.	Yes	MGMT	
								Ensure that no additions or alterations are performed on the platform	Yes	MGMT	
								without written approval from the manufacturer or their authorised agent in Australia.			
							_		Yes	MONTION	
1.2.4	Personnel exposed to hazards because Load Sensing System	System designed so that it cannot be easily disabled.		~		<u> </u>		Ensure load sensing system is checked at the regular intervals as	res	MGMT/OP	
11.2.4	Personnel exposed to hazards because Load Sensing System has been disabled or is incorrectly adjusted.		4	2	1	3	6	Ensure load sensing system is checked at the regular intervals as detailed by manufacturer.			
11.2.4		System designed so that it cannot be easily disabled. Decal fitted [156613] which states do not alter or disable any safety switch or device.	4	2	1	3	6		Yes	MGMT/OP	
1.2.4		Decal fitted [156613] which states do not alter or disable any safety switch or device. Detailed instructions provided in the Maintenance Manual [p. 31] regarding the correct testing	4	2	1	3	6	detailed by manufacturer.			
1.2.4		Decal fitted [156613] which states do not alter or disable any safety switch or device.	4	2	1	3	6	detailed by manufacturer.			

RISK ASSESSM	ENT: SKYJACK SJ45AJ+ & SJ60AJ+									PRELIMINARY	(Refer to "Not	es" section)
Α	В	C				D1	D2	2 D	E	F	G	н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or iilness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that th necessary action ha been completed
1.2.5	Risk of overturning because of incorrectly adjusted limit switches on reach limiting system.	System designed so that a single fault will not lead to the loss of the safety function.	4	2	1	3	6		nsure reach limiting system is checked at the regular intervals as tailed by manufacturer.	Yes	MGMT	
	switches of readin limiting system.	Instruction in Operators Manual [p. 32] describing reach limiting system.							sure system is not tampered with or disabled.	Yes	MGMT/OP	
11.2.6		AS2550.10 – 2006 includes additional advice regarding operation on slopes.	4	2	1	3	6		nsure that the MEWP is operated within the rated slope limitations	Yes	MGMT/OP	
	due to operation on excessive slope.	Chassis inclination indicator system provided which warns the operator if the lateral and longitudinal						sp	ecified. nsure that thorough site checks are performed prior to operation.	Yes	MGMT/OP	
		slope limits of the chassis are exceeded. Chassis inclination limitations are provided in the operator's manual [p. 93 (SJ45AJ+), 93 (SJ60AJ+),						Se	elect the correct MEWP for the anticipated slopes at the job site.	Yes	MGMT/OP	
]. Instruction in Operators Manual [p. 72] describing operation of the tilt alarm and how to recover the							neck the operation of the inclination alarms and interlocks in	Yes	MGMT/OP	
		boom. The chassis inclination limits are listed on the data plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+),						ac	cordance with the manual.			
		(0),]. Checks of the inclination system are included in the service manual. [p. 173].										
11.3	Starting and stopping devices											
11.3.1		Emergency stop switches comply with AS1418.10 – 2011 clause 2.6.6.	4	2	1	3	6		nsure that the inspection checks are performed as per instructions in	Yes	MGMT/OP	
		Emergency stop switches located at both control stations.	-	2		Ŭ	Ŭ	inc	anual. Isure that any malfunctioning components or systems are repaired	Yes	MGMT/OP	
		Instruction in Operators Manual [p. 50] to test the emergency stop.						Ξ pri	ior to use.	Yes	MGMT/OP	
		instruction in Operators Manual (p. 50) to test the energency stop.						be	fore use of MEWP as per pre-start inspection.	res	MGW1/OP	
11.4	Safety signs and signals					- 1	-				OP	
11.4.1	Personnel injured due to missing or illegible safety signs.	List of safety pictorials and Decals are illustrated in the Operators Manual [pp.Section 8]. Instruction in Operators Manual [p. 9, 16, 40] to check decals legible and in place.	3	2	1	3	6		onduct pre-operational checks as described in manual. aintain signs and replace as necessary.	Yes Yes	OP OP	
		······································						En En	nsure all decals are present and legible before using MEWP.	Yes	OP	
11.5	All kinds of information or warning devices									1		
11.5.1	Personnel are not provided with sufficient instruction because	Storage compartment fitted on the platform for manual.	3	2	1	3	6	E En	nsure the MEWP is supplied with all of the relevant operating manuals.	Yes	MGMT	
	operations manual missing from MEWP.	Manuals available from manufacturer's website.				-	-		sure that the operators check that the operations manual is present fore operating MEWP.	Yes	OP	
11.5.2	Incorrect information is provided in the operator's manual	Independent review of manuals conducted as part or risk assessment.	3	2	1	3	6	M	ione operating init with.			
11.6	Energy supply disconnecting devices											
11.6.1	Maintenance personnel injured due to failure of pressure isolating or depressurising devices in hydraulic circuit(s).	No accumulators fitted.	1	2	1	3	6		nsure that only property qualified maintenance personnel perform aintenance on the MEWP.	Yes	MGMT	
								- un	nsure that all instructions provided by the manufacturer are read and derstood prior to commencing any maintenance activities on the EWP.	Yes	MGMT	
11.7	Emergency devices											
11.7.1	Emergency pump does not operate.	Instruction in Operators Manual [p. 52] to test the emergency controls.	1	2	1	3	6		nsure that operators are trained in the correct use of the emergency	Yes	MGMT/OP	
		Instruction in Operators Manual [p. 58] to test emergency power.						≥ En	trieval system. nsure that the emergency pump is checked on a periodic basis in ccordance with the manufacturer's instructions.	Yes	MGMT/OP	
								En	sure that MEWP is stood down from service if the emergency system not working properly.	Yes	MGMT/OP	
11.7.2	Keys have been removed from selector switch whilst	Key can only be removed in the "off" or "ground controls" position.						131	the working property.			
	personnel are elevated in platform.		3	2	1	1	4	row				
11.7.5	Hazards arising as a result of incorrect emergency retrieval	Instruction in Operators Manual [p. 67, 70] describing use of emergency power system.	1	2	1	3	6	En	nsure operators are trained in emergency retrieval and operation.	Yes	MGMT/OP	
	procedures.	Instruction in Operators Manual [p. 33] describing operation of the secondary guarding system.						<mark>≥</mark> En	nsure that refresher training is undertaken by operators on a regular	Yes	MGMT/OP	
		Decal fitted adjacent to the emergency controls explaining the operation [173187].							isis. Isure that ground personnel are present who are trained in the	Yes	MGMT/OP	
11.8	Feeding/removal means of work pieces		I					NS err	nergency lowering procedures.	I		
11.9	Essential equipment and accessories for safe adjust	sting and/or maintaining										
11.9.1	Persons injured whilst performing maintenance.	Maintenance procedures provided by manufacturer detailing all critical maintenance requirements.	1	2	1	3	6	En	nsure personnel are trained in correct repair procedures.	Yes	MGMT	
		Detailed instructions provided in maintenance manual which covers all anticipated repairs and maintenance items.		-		J	5	8 ret	nsure that the MEWP is tested by a competent person prior to being turned to normal service after repairs and/or adjustment of critical	Yes	MGMT	
									mponents or systems. nsure that all appropriate equipment is supplied and used when	Yes	MGMT	
									rforming maintenance.			

RISK ASSESSM	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	' (Refer to "Not	es" section)
Α	В	C			0	D1 I	D2	D E	F	G	Н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that th necessary action ha been completed
11.9.2	Personnel crushed working under the elevated structure	Warning in maintenance manual to ensure personnel are clear from under unsupported components/systems that are at risk of movement during maintenance.	1	2	1	3	6	Ensure that personnel do not enter the area under the platform if it is not adequately supported.	t Yes	MGMT/OP	
		Warning in Maintenance Manual [p. 14] to use devices to support weight of components to be lifted.						Provide equipment to prevent platform falling such as overhead crane.	Yes	MGMT/OP	
		Warning label fitted [172680] which states that personnel not enter the space beneath the work platform or extending structure during maintenance unless a means of structure support is in place.					-				
1.9.3	Persons injured whilst handling heavy or unsupported items.	Warning in Maintenance Manual [p. 14] to use devices to support weight of components to be lifted.	1	2	1	3	6	Provide necessary equipment to handle heavy items.	Yes Yes	MGMT	
11.9.4	Strains/sprains when removing components or performing	Standard SWP's apply.						accordance with recognised industry practice. Establish appropriate work procedures for all anticipated maintenance	Yes Yes	MGMT	
1.9.4	certain maintenance aspects of the MEWP.	Stantianu Svirr S appiy.	1	2	1	3	6	Periodically review these safe work procedures for an anticipated maintenance	Yes	MGMT	
1.9.5	Personnel fall whilst performing maintenance checks.	Standard SWP's apply	1	2	1	3	6	Ensure that appropriate equipment is used during maintenance where	e Yes	MGMT	
		Pre-operational checks able to be performed at ground level. Maintenance manual [part number 238272ABA] provided which details all checks and the residual hazards.					-	access at height is required. Periodically review these safe work procedures (SWP's).	Yes	MGMT	
11.10	Equipment evacuating gases, etc.										
11.10.1	Exhaust system has been removed or is damaged.		1	2	1	3	6	Ensure that exhaust system is maintained in accordance with manufacturer's instructions.	n Yes	MGMT/OP	
12	Inadequate lighting of moving/working area										
12.1	Collision with structures or objects due to inadequa	te lighting of work site									
12.1.1	Persons could be injured if the light on the job site is inadequate.	Standard SWP's apply.	3	2	1	3	6	Ensure lighting in job area is assessed by trained personnel prior to undertaking further machine operation.	Yes	MGMT/OP MGMT/OP	
							1	Monitor lighting levels throughout the operation of the MEWP, as lighting is prone to change relative to time of day. Fit work lights if anticipating work at night or poorly lit areas.	Yes Yes	MGMT/OP	
13	Hazards due to sudden movement/instability o	during handling									
13.1	General Manouvering										
3.1.1	While personnel are moving MEWP around job site.	Maximum travel speeds are fixed.	3	2	1	3	6	Ensure that MEWP is not driven on excessive slopes or rough terrain at speed.	t Yes	OP	
		Ramp speed provided which is slower than travel speed. Travel speeds given in operator's manual (Section 7).						Ensure that operators travel at speeds commensurate with the conditions.	e Yes	OP	
3.1.2	Operator located on the ground crushed while operating the	Travel controls only provided at platform controls (type 3 MEWP).			_	_	_				
13.1.2	travel controls – type 2 or 3 MEWP.	naver controls only provided at platform controls (type 3 me.w.r.).	3	2	1	3	6				
13.2	Lifting/Loading/Towing										
13.2.1	Operator is dragged along the ground while operating the travel controls.	Lower controls only control the extending mechanism of MEWP (type 3 MEWP). Only possible to use controls at pre-selected position, not possible to use travel controls in platform	3	2	1	3	6	Ensure operators are clear from ground controls when travel operation is to occur.	s Yes	OP	
3.2.2	When loading/unloading MEWP from trucks.	whilst lower controls are being used to lower platform. Storing and transportation procedures provided in the operators manual [p. 62].	4	2	2	3	7	Ensure that operators are aware of the precautions and operationa requirements specified in the manual.	I Yes	MGMT	
		Warning in Operators Manual [p. 17] not to exceed the gradeability.					G	Ensure persons abide by the instructions. Ensure that only trained personnel are permitted to load the machine	Yes Yes	OP MGMT/OP	
13.2.3	When lifting MEWP for transportation.	Information in Operators Manual (p. 78) describing lifting instructions. Lift points fitted and identified on the MEWP [124767].	3	2	2	3	7	onto trucks. Ensure that only trained personnel are permitted to lift the MEWP.	Yes	MGMT/OP MGMT/OP	
		The unladen mass of the MEWP is listed on the data plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),] fitted to the MEWP. Standard machine specifications included in the operators manual [Section 7].						Ensure that the proper lifting points are used. Ensure that suitably rated chains & slings are used.	Yes Yes	MGMT/OP MGMT/OP	
3.2.4	Operator algorid from plotform while the disc and the	Lift points have been designed to support the intended loads over the life of the MEWP.	\vdash		_		_	Ensure that only suitably trained account on account 1.1.1.1	V	MONTIOD	
13.2.4	Operator ejected from platform whilst loading onto trucks.	Warning in Operators Manual (p. 17) not to exceed the gradeability. Requirement in manual (p. 19) to perform site survey prior to operation.	3	2	2	3	7	Ensure that only suitably trained personnel are permitted to load MEWPs onto trucks. Ensure that personnel wear the correct fall restraint harness whils	t Yes	MGMT/OP OP	
3.2.5	Injury from unsecured vehicle whilst transporting.	Instructions in operator's manual [p. 62] regarding transporting MEWP as required by AS1418.10 -	3	2	~	~	7	Ioading the MEWP onto trucks. Ensure that the instructions provided in the operator's manual are	e Yes	MGMT/OP	
		2011 clause 4.1.3 (a). Tie-down points fitted to MEWP and identified with decals [124767].	3	2	2	3	1	followed. Ensure the MEWP is properly secured when transporting on vehicles.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 77] to secure the turntable rotation lock before transporting.					ę				

(the situation or parts 13.2.6 Injury due to tray or floa 13.2.7 Personnel activate free- to roll. 14 Inadequate/non-e 14.1 Hazards due to dana 14.1 Hazards due to dana 14.1 Personnel injured due to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.2.1 Personnel injured due to 14.2.2 Due to collision with obsequations cannot see from 14.2.1 Inadequate seat/see 14.3 Inadequate seat/see 14.4 Inadequate seat/see 14.4 Inadequate form cannot see from 14.4.1 Operator suffers fatigue controls. 14.4.2 The position of the platf adopt an unhealthy post 14.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 14.7 Movement of pedeet 15.1 Hazards to exposed 15.1 Failure of cylinder or ho of the work platform an	CK SJ45AJ+ & SJ60AJ+			_	_	_	_		PRELIMINARY		es" section)
(the situation or parts 13.2.6 Injury due to tray or floa 13.2.7 Personnel activate free- to roll. 14 Inadequate/non-e 14.1 Hazards due to dan 14.1.1 Operator is exposed to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.2.1 Personnel injured due to 14.2.2 Due to collision with obs platform cannot see fro 14.3 Inadequate seat/see 14.4 Inadequate/non-erg 14.4 Inadequate form erg 14.4 Excessive effort require 14.5 Starting/moving of 14.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 15.1 Hazards to exposed 15.1 Failure of cylinder or no of the work platform an 15.1.2 Operator crushed as a later	В	C			D	01 D	02 D	E	F	G	н
13.2.7 Personnel activate free- to roll. 14 Inadequate/non-er 14.1 Hazards due to dan 14.1 Hazards due to dan 14.1 Hazards due to dan 14.1.1 Operator is exposed to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.2.1 Personnel injured due to 14.2.2 Due to collision with obs platform cannot see fro 14.3 Inadequate seat/set 14.4 Inadequate/non-erg 14.4 Inadequate form cannot see fro 14.4 Inadequate form cannot see fro 14.4.1 Operator suffers fatigue controls. 14.4.2 The position of the platf adopt an unhealthy posi 14.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 15.1 Hazards to exposed 15.1 Failure of cylinder or ho of the work platform an 15.1.2 Operator crushed as a 1	Hazard Description - on or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency Drobability	Aveidence	Avoidance	Class Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that th necessary action ha been completed
13.2.7 Personnel activate free- to roll. 14 Inadequate/non-er 14.1 Hazards due to dan 14.1 Hazards due to dan 14.1 Personnel injured due to 14.1.1 Operator is exposed to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.1.2 Personnel injured due to 14.2.1 Personnel injured due to 14.2.2 Due to collision with obs platform cannot see fro platform cannot see fro 14.3 Inadequate seat/set 14.4 Inadequate numbers fatigue controls. 14.4.1 Operator suffers fatigue controls. 14.4.2 The position of the platf adopt an unhealthy posi 14.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 15.1 Hazards to exposed 15.1 Hazards to exposed 15.1 Failure of cylinder or ho of the work platform an 15.1.2 Operator crushed as a later		Warning in Operators Manual [p. 79] to secure the platform and chassis using tie downs.					Σ				
to roll. 14 Inadequate/non-e 14.1 Hazards due to dan 14.1.1 Operator is exposed to 14.1.2 Personnel injured due to 14.1.2 Inadequate visibility 14.2 Inadequate visibility 14.2.1 Personnel injured due to 14.2.2 Due to collision with obs 14.3 Inadequate seat/see 14.4 Inadequate seat/see 14.4 Inadequate seat/see 14.4.1 Operator suffers fatigue 14.4.2 The position of the platf adopt an unhealthy posi I4.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 15.1 Hazards to exposed 15.1 Failure of cylinder or ho of the work platform an 15.1.1 Failure of cylinder or ho of the work platform an		Standard machine specifications included in the operators manual [Section 7]. Warning in Operators Manual [p. 77] to make sure all equipment has suitable capacity.	1	2 1	1 ;	36	6 NOT	Ensure that the vehicle is of adequate size to carry the MEWP.	Yes	MGMT/OP	
4.1 Hazards due to dan 4.1.1 Operator is exposed to 4.1.2 Personnel injured due to 4.1.2 Inadequate visibility 4.2 Inadequate visibility 4.2.1 Personnel injured due to 4.2.2 Due to collision with obspatform cannot see froin 4.2.2 Due to collision with obspatform cannot see froin 4.3 Inadequate seat/see 4.4 Inadequate number of pedet 4.4.1 Operator suffers fatigue controls. 4.4.2 The position of the platfadopt an unhealthy position of the platfadopt and unhealthy position of the platfadopt and unhealthy position of the platfadopt and unhealthy position with ve 4.5.1 Unexpected movement 4.6 Road traffic of self-ta. 4.7 Movement of pedets 5.1 Hazards to exposet 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a later	,	Freewheeling valve located under covers and not susceptible to inadvertent activation.	1	2 1	1 ;	3 6	6 <mark>MO</mark>	Ensure that operators are trained to perform brake release. Ensure operators follow the instructions provided in the manual.	Yes Yes	MGMT/OP MGMT/OP	
4.1 Hazards due to dan 4.1.1 Operator is exposed to 4.1.2 Personnel injured due to 4.1.2 Inadequate visibility 4.2 Inadequate visibility 4.2.1 Personnel injured due to 4.2.2 Due to collision with obspatform cannot see froin 4.2.2 Due to collision with obspatform cannot see froin 4.3 Inadequate seat/see 4.4 Inadequate number of pedet 4.4.1 Operator suffers fatigue controls. 4.4.2 The position of the platfadopt an unhealthy position of the platfadopt and unhealthy position of the platfadopt and unhealthy position of the platfadopt and unhealthy position with ve 4.5.1 Unexpected movement 4.6 Road traffic of self-ta. 4.7 Movement of pedets 5.1 Hazards to exposet 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a later	ate/non-ergonomic design of driving/o							Ensure operators follow the instructions provided in the manual.	163	WGW170F	
4.1.1 Operator is exposed to 4.1.2 Personnel injured due to 14.1.2 Inadequate visibility 14.2 Inadequate visibility 14.2.1 Personnel injured due to 14.2.1 Due to collision with observation 14.2.2 Due to collision with observation 14.3 Inadequate seat/seetval 14.4 Inadequate seat/seetval 14.4 Inadequate/non-erg 14.4.1 Operator suffers fatigue controls. 14.4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position of file. 14.4.4 Excessive effort require 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 15.1 Hazards to exposed 15.1 Hazards to exposed 15.1 Failure of cylinder or ho of the work platform an	due to dangerous environments (contact w										
Inadequate visibilit I4.2 Inadequate visibilit I4.2.1 Personnel injured due to operating position. I4.2.2 Due to collision with obs-platform cannot see from platform cannot see from cannot	exposed to contact with exhaust gases.		1	2	1 ;	3 6	6 <mark>8</mark>	Ensure that exhaust system is maintained in accordance with manufacturer's instructions.	n Yes	MGMT	
4.2.1 Personnel injured due to operating position. 4.2.2 Due to collision with observation position. 4.3 Inadequate seat/setemplatform cannot see from platform cannot see from cannot see fro	njured due to exposure to rotating drive shafts.		3	2 1	1 ;	з 6		Ensure that personnel are trained with respect to the residual hazard.	Yes	MGMT	
a.2.2 Due to collision with obsplatform cannot see from cannot s	te visibility from driver's/operator's position	on									
Inadequate seat/sec Inadequate seat/sec Inadequate/non-erg I.4.1 Inadequate/non-erg I.4.1 Operator suffers fatigue controls. I.4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position. I.4.4 Excessive effort require I.4.5 Starting/moving of I.4.5.1 Unexpected movement I.6 Road traffic of self. I.6.1 MEWP collision with ve I.5.1 Hazards to exposed I5.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a labeled for the set of the set o		Operator's position in platform generally offers a good position to see all parts of the MEWP structure.	3	2 1	1	3 6		Ensure operators survey the area within which they are to be working in order to familiarise themselves with possible obstructions.	n Yes	OP	
4.3 Inadequate seat/sei 4.4 Inadequate/non-erg 4.4.1 Operator suffers fatigue controls. 4.4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position of the platf adopt an unhealthy position. 4.4.4 Excessive effort require 4.5 Starting/moving of 4.5.1 Unexpected movement 4.6 Road traffic of self- 4.6.1 MEWP collision with ve 5 Mechanical hazar 5.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a labeled							Σ	Ensure a spotter is used if required.	Yes	MGMT/OP	
4.4 Inadequate/non-erg 4.4 Inadequate/non-erg 4.4 Operator suffers fatigue controls. 4.4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position. 4.4.4 Excessive effort require 4.5 Starting/moving of 15.1 4.6 Road traffic of self. 4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Faiure of cylinder or ho of the work platform an of the work platform an 0.1.2	nnot see from operating position.	Controls positioned in accordance with AS1418.10 clause 2.6.1 so that the operator has visual contact with the resulting travel and extending structure movements. Platform has perforated floor to allow greater vision.	3	2 1	1 ;	3 6	6 MU	Ensure operators are trained with respect to this hazard. Ensure the MEWP is operated at reduced speeds when clearance	Yes Yes	MGMT/OP MGMT	
Inadequate/non-erg 4.1 Operator suffers fatigue controls. 4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position. 4.4 Excessive effort require 1.5 Starting/moving of 5.1 1.6 Road traffic of self. 1.6.1 MEWP collision with ve 1.7 Movement of pedes 5 Mechanical hazar 5.1 Hazards to expose 1.1 Faiure of cylinder or ho of the work platform an of the work platform and the sector of the work platform and the sector of the work platform an of the work platform and the sector and the se		Warning in Operators Manual (p. 17, 66, 69) to be aware of blind spots.					MED	between the platform and other objects is reduced. Ensure a spotter is used if required.	Yes	OP	
4.4.1 Operator suffers fatigue controls. 4.4.2 The position of the platf adopt an unhealthy position of the platf adopt an unhealthy position. 4.4.4 Excessive effort require 4.5 Starting/moving of 4.5.1 4.6 Road traffic of self-4.6.1 4.6 Road traffic of self-4.6.1 4.7 Movement of pedeets 5 Mechanical hazat 5.1 Failure of cylinder or ho of the work platform and the work platform and 5.1.2	te seat/seating (seat index point)						N	S			
controls. Controls. The position of the platf adopt an unhealthy position controls. Starting/moving of A.5. Starting/moving of A.5.1 Unexpected movement A.6 Road traffic of self- A.6.1 MEWP collision with ve A.6.1 Methematical hazar S. Hazards to expose S.1 Failure of cylinder or ho of the work platform an S.1.2 Operator crushed as a literative of the self-	te/non-ergonomic design/positioning of co	ontrols									
adopt an unhealthy positive 44.4 Excessive effort require 14.5 Starting/moving of 14.5.1 Unexpected movement 14.6 Road traffic of self- 14.6.1 MEWP collision with ve 14.7 Movement of pedes 15.1 Hazards to exposet 15.1.1 Failure of cylinder or ho of the work platform an 15.1.2 Operator crushed as a larger	ffers fatigue as a result of the position of the	Controls positioned so that a comfortable stance can be achieved.	1	2 1	1 ;	3 6	⁶ No	Implement a system to ensure that operators do not work excessive or continuous shifts and manage peak demands. Ensure that operators do not continue use of the MEWP if they feel tired	Yes Yes	MGMT MGMT/OP	
adopt an unhealthy positive 4.4.4 Excessive effort require 4.5 Starting/moving of 4.5.1 Unexpected movement 4.6 Road traffic of self- 4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a line	n of the platform controls causes the operator to	Controls placed in an ergonomic location allowing ease of use by operator.			_	_	_	or are suffering from fatigue. If the position of the controls causes discomfort to the operator ensure	e Yes	MGMT	
A.5 Starting/moving of 4.5.1 Unexpected movement 4.6 Road traffic of self- 4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a 1			1	2 1	1 ;	36	6 NOT	that they are moved to an appropriate position. Limit the length of shifts to a reasonable time.	Yes	MGMT/OP	
4.5.1 Unexpected movement 4.6 Road traffic of self- 4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform and 5.1.2 Operator crushed as a laboration		Effort required to activate controls is reasonable.	1	2 1	1 ;	3 6	6 <mark>8</mark>	Maintain Controls to ensure that undue force is not required to activate control functions.	e Yes	MGMT	
4.5.1 Unexpected movement 4.6 Road traffic of self- 4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform and 5.1.2 Operator crushed as a laboration		Control actuation forces comply with ISO21455 requirements.					-	Limit the length of shifts to a reasonable time.	Yes	MGMT/OP	
4.6.1 MEWP collision with ve 4.7 Movement of pedes 15 Mechanical hazar 15.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a l	noving of self-propelled machinery I movement during start-up				.			Ensure that personnel are clear before travelling or when starting.	Yes	MGMT/OP	
4.6.1 MEWP collision with ve 4.7 Movement of pedes 5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a l			1	2 1	1 ;	3 6	6 <mark>9</mark>				
I4.7 Movement of pedes I5 Mechanical hazar I5.1 Hazards to exposed I5.1.1 Failure of cylinder or ho of the work platform an I5.1.2 Operator crushed as a last of the second	fic of self-propelled machinery										
5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a 1	sion with vehicular traffic on job site.	Warning in manual regarding the residual hazard of traffic on-site [p. 19].	4	1 1	1 ;	3 5	5	Implement a traffic management system.	Yes	MGMT/OP	
5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a 1		Projecting extremities are identified with hazard tape to increase visibility. An audible alarm sounds whenever the MEWP is in motion.					HGH	Ensure that the rotating/strobe light is used whenever the machine is in motion. Ensure a traffic management system is enforced, should the MEWP be	Yes Yes	OP MGMT/OP	
5 Mechanical hazar 5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a 1		Instruction in Operators Manual [p. 10] to obey all laws, regulations and job site rules.						exposed to vehicular traffic.			
5.1 Hazards to exposed 5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a 1	t of pedestrian-controlled machinery						N	S			
5.1.1 Failure of cylinder or ho of the work platform an 5.1.2 Operator crushed as a l	cal hazards (due to failure of systems	or devices)									
of the work platform an 5.1.2 Operator crushed as a l	o exposed persons due to uncontrolled me										
	platform and extending structure.	Cylinders are fitted with load holding check valves to prevent movement in case of hose failure. Hydraulic filters fitted.	2	2 1	1 ;	3 6	6	Ensure cylinders are inspected in accordance with procedures outlined in manual. If any defects are detected ensure that the MEWP is withdrawn from	Yes Yes	MGMT/OP OP	
		Maintenance manual provided which includes service requirements for hydraulic system.					P	service until the defects are rectified.	165	Gr	
	o brake failure.	Theoretical gradeability limits in the operator's manual [Section 7]. Brakes designed and tested to achieve the stopping distances in accordance with AS1418.10 – 2011 clause 2.2.16.	4	2 2	2	3 7	7 HOH	Ensure travel speed is reduced when travelling on gradients.	Yes	OP	
		Brakes fitted to two wheels, which complies with the requirements of AS1418.10 - 2011 clause 2.2.12.									
15.1.4 Platform levelling system		Hydraulic master Slave system fitted with counterbalance valves on slave cylinder. Inspections provided in the service manual including test requirements	1	2 1	1 ;	3 6	6 <mark>8</mark>	Ensure that the levelling system is periodically checked according to the service manual.	e Yes	MGMT	

A Hazard No. 15.2 15.2.1 15.2.2	INT: SKYJACK SJ45AJ+ & SJ60AJ+ B Hazard Description - (the situation or parts of plant which could cause injury or illness) Hazards due to break-up and/or ejection of parts MEWP could collapse or break up as a result of poor design or manufacture.	C Is there any risk? Describe the risk control measures ALREADY implemented	Severity	bility		I D2	2 D	E	F	G	Н
15.2 15.2.1	(the situation or parts of plant which could cause injury or illness) Hazards due to break-up and/or ejection of parts MEV/P could collapse or break up as a result of poor design	Describe the risk control measures ALREADY implemented	Severity	bility	e e			-	-	-	
15.2 15.2.1	(the situation or parts of plant which could cause injury or illness) Hazards due to break-up and/or ejection of parts MEV/P could collapse or break up as a result of poor design	Describe the risk control measures ALREADY implemented	Severity	bility	e e						1
15.2.1	MEWP could collapse or break up as a result of poor design			Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
15.2.2											
15.2.2	or manufacture.	MEWP is load tested as part of pre-delivery checks by manufacturer before delivery to customer.	1 2	1	3	6		Ensure that the unit is registered with manufacturer.	Yes	MGMT	
		Warning in Operators Manual [p. 15, 18, 39] not to use a damaged/malfunctioning machine.						Periodically check for the existence of routine safety alerts that may be	Yes	MGMT	
								issued by the manufacturer or the representative.		_	L
		Note in Operators Manual [p. 46] to check for cracks.					N	Routinely inspect the MEWP by a competent organisation external to operator.	Yes	MGMT	1
							2	Monitor local Hazard Alerts and Incident Safety Notices and examine these to determine if they are or could be relevant to the MEWP.	Yes	MGMT	
											l
								Ensure preoperational inspections are conducted as per the manufacturers instructions.	Yes	MGM1/OP	l
	Due to failure to observe or rectify safety upgrades from	Manufacturer maintains a database of who owns which model MEWP.	4 2	1	3	6		Ensure that the MEWP is registered with the manufacturer.	Yes	MGMT	
	manufacturer.	Instruction in Operators Manual [p. 9] to register the machine with the manufacturer.			Ŭ	Ŭ		Periodically check the status in respect of safety bulletins or upgrades	Yes	MGMT	l
							풍	applying to the MEWP.	103		1
		Instructions in service manual [pp. 17 & 18] to check for outstanding service bulletins during periodic					Ŧ	Ensure that safety upgrades provided by the manufacturer are implemented.	Yes	MGMT	1
		inspection.						Ensure the manufacturer is advised when the MEWP is disposed of or	Yes	MGMT	l
								sold.			
1	Structural failure due to thermal expansion of hydraulic oil if MEWP is left fully extended for a long period of time.		1 1	1	3	5	LOW	Ensure the MEWP is not left fully extended for a long period of time.	Yes		<u> </u>
15.2.4	Structural collapse due to loss of pivot pin(s)	Instruction in Operators Manual [p. 48] to check nuts, bolt and other fasteners.	1 1	1	3	5	LOW	Check the security of all pivot pins.	Yes	MGMT/OP	
15.3	Hazards due to rolling over (roll over protection - R	OP)			_		NS				[
	Hazard due to falling objects (falling object protecti							L			
	Ground crew or passer-by being struck by falling tools or	Kick panel provided on platform in accordance with AS1418.10 – 2011 clause 2.5.4.	3 2	1	3	6		Barricade area from public access.	Yes	OP	
	objects.	See AS2550.10 – 2006 clause[s] 5.10 & 5.16.	5 2		5	0	MUIC	Ensure that materials are not supported on the guardrails or exceed the	Yes	OP	
							MEC	confines of the platform. Remove all loose tools and objects from the platform before driving.	Yes	For Action by Whom MGMT MGMT/OP MGMT/OP	[
15.5	Inadequate means of access						NS				
	Hazards caused due to towing, coupling, connectin	g. and transmission									
	Injury sustained whilst towing.	Information in Operators Manual [p. 74] describing free-wheeling/brake release	2 2		3	6		Ensure that the instructions provided in the operator's manual are	Yes	MGMT/OP	
		Information in Operators Manual (n. 74) de anthing territoris instructions	2 2		3	0		followed.	No.	MONT/OD	l
		Information in Operators Manual [p. 74] describing towing instructions.					3	Ensure that only trained personnel are permitted to tow the MEWP. Ensure MEWP is parked on flat level ground before releasing brakes.	Yes Yes		i
							P	Lisure MEWP is parked on hat level ground before releasing brakes.	res	WGW1/OF	1
								Ensure that personnel do not release the brakes unless the MEWP is properly chocked in accordance with the instructions provided in the	Yes	MGMT/OP	
	Hazards due to batteries. fire. emissions. etc.							operator's manual.			<u> </u>
	Hazards from batteries and associated faults.	Batteries are fitted behind engine cowling which provides a shield and is located away from operators.	<u> </u>	-	1	T		Ensure the battery isolation switch is used whenever battery	Yes	MGMT/OP	
10.7.1		Batteries are nited bennite engine cowing which provides a shield and is located away non-operators.	2 2	2	3	7		maintenance is performed.	103	MOMITION	1
		Battery isolation switch fitted.						Ensure that the appropriate PPE is worn when working on or near the batteries.	Yes		
		Instruction in Operators Manual [p. 41] describing battery charging					×	Ensure safe work procedures are established in regards to working with batteries.	Yes	MGMT/OP	l
		Warning decal [119674] fitted to chassis which states to isolate battery before servicing.					2	Ensure operators follow established safe work procedures.	Yes	MGMT/OP	i
								Ensure that only trained personnel conduct maintenance on or near	Yes	MGMT/OP	
								batteries. Ensure that personnel who are trained in first aid are readily available to make assistance if assuring	Yes	MGMT/OP	[
16	Hazards due to lifting operation			_	1	_		render assistance if required.			
	Lack of stability										
		See 19.2, 23			1	1	Т				
	Derailment of machinery						NS		·		
	Loss of mechanical strength of machinery and liftin	-									· · · · · · · · · · · · · · · · · · ·
16.3.1	Failure of lifting points.	Lift points are designed for loads as anticipated during normal lifting for the life of the MEWP.	3 2	1	3	6		Ensure that lift points are inspected as per the criteria detailed in the	Yes	MGMT/OP	
		Information in Operators Manual [p. 78] describing lifting instructions.					MUID	maintenance manuals. Ensure instructions are followed as per the instructions provided in the operator's manual for lifting.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 78] to use lifting eyes only Lift points fitted and identified on the MEWP [124767].					ME				
		En porno nuos ana lacitanda on menterne (12410/).									

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RISK ASSESSME	NT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
А	В	C			D	1 D	02 D	E	F	G	Ĥ
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	e	Prohahility	Avoidance	Avoluance Class	Class Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
	Hazard number not used.	See 13.2	3	2 1	1 3	3 6	6 MEDIUM				
17	Inadequate view of trajectories of the moving										
	Hazard number not used.	See 14.2.	4	3 2	2 3	3 8	B HOH				
18 18.1	Hazards caused by lightning Persons could be injured if the unit is operated during storms.	Warning in Operators Manual [p. 15] not to operate in lightning or storms.	4	1 1	1 3	з е	5 HOH	Ensure MEWP is not used outdoors during storms or if it is likely that storm may arise during performance of the task.	Yes	MGMT/OP	
	Hazards due to loading/overloading										
	Mechanical Hazards										
19.1.1	Maximum rated capacity is exceeded.	Load sensing system fitted to platform which prevents platform overload from vertical loads. (See 20.2). Warning in Operators Manual [p. 18] to not to exceed the rated load.	3	3 1	1 3	3 7	7	Ensure preoperational checks are performed in accordance with those outlined in operators manual. Ensure that any faults are reported directly to management and machine is withdrawn from service.	Yes	MGMT/OP MGMT/OP	
		The maximum Rated Capacity is listed in the operator's manual [p. 93 (SJ45AJ+), 93 (SJ60AJ+),].					MU	Verify that the expected loads do not exceed the rated capacity.	Yes	MGMT/OP	
		The maximum rated capacity is displayed on the manufacturers ID plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),].					MEDI				
		The maximum rated capacities displayed on the platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),], [], Instruction in Operators Manual [p. 54] to test the load sensing system.									
19.1.2	Maximum manual force is exceeded.	Warning in Operators Manual [p. 17] that the maximum manual force must not be exceeded.	4	1 1	1 3	3 5	5	Ensure that operators do not exert lateral force greater than that specified.	Yes	OP	
		Maximum permitted manual force displayed on platform [(SJ45A,1+), 173607(SJ60A,1+), (0),]. Maximum permitted manual force included on ID plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),].					HIGH	Ensure that operators do not push or pull objects with platform.	Yes	OP	
		Decal fitted to platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),] includes maximum manual force.									
19.1.3	Maximum wind speed/wind load is exceeded.	MEWP is designed and rated for wind speed of 12.5 m/s for the maximum number of platform occupants in accordance with AS1418.10. Warning in Operators Manual [p. 16] to not use the machine if wind speed exceeds 12.5m/s.	4	1 1	1 3	3 5	5	Train operators of the dangers of carrying or fitting bluff bodies to the platform. Ensure that the EWP is not operated in high winds above the rated	Yes	MGMT MGMT/OP	
		Warning in Operators Manual [p. 16] to not increase the surface area of the platform or load. Maximum wind speed rating listed in operator's manual [p. 85].					HOH	speed. Monitor wind forecasts on a regular basis.	Yes	OP	
		ID plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),] includes maximum wind speed rating.					Ť				
		Decal fitted to platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),] includes maximum wind speed rating.									
19.1.4	Structural failure due to influences from load combinations not taken fully into account.	Structural analysis accounts for normally encountered load combinations; wind + dynamic + static, wind + manual force + static.	3	1 1	1 3	3 5	5	Ensure that the machine is only operated within the specification detailed in the operating manual and in accordance with industry standards and AS2550.10.	Yes	MGMT/OP	
		Maximum permitted manual force displayed on platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),].					×	Ensure each person required to operate the machine has been trained and assessed in accordance with the recognised assessment instruments and in accordance with the requirements specific to this MFWP.	Yes	MGMT/OP	
		Standard machine specifications included in the operators manual [Section 7]. detail the load combinations which are acceptable.					MEDIU	Verify expected loading and confirm it is less than rated capacity.	Yes	MGMT/OP	
		MEWP is fitted with a load sesning system which limits the magnitude of the vertical load. The maximum rated capacities displayed on the platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),						Verify operating slopes are less than the maximum permitted chassis inclination of the MEWP. Verify wind conditions experienced in service are less than the maximum	Yes	MGMT/OP MGMT/OP	
]. Decal fitted to platform [173608(SJ45AJ+), 173607(SJ60AJ+), (0),] includes maximum wind speed						wind speed rating of the MEWP. Ensure the machine is isolated to prevent unauthorised use at the end of	Yes	MGMT/OP	
19.1.5	Fitment of non-standard equipment or brackets to platform exceeds rated capacity.	rating. Warning in operator's manual (p. 15, 39) that only manufacturer approved equipment may be fitted to the platform.	1	2 1	1 3	3 6	6 <mark>N</mark>	each work shift. Ensure that only manufacturer approved equipment is fitted to the work platform.			
19.1.6	Due to operator in platform lifting loads with ropes.	Warning in Operators Manual (p. 17) not to use as crane.			+			Ensure that any lifting devices fitted are not overloaded and all instructions for use are followed. Ensure operators do not cause platform overload by lifting additional	Yes	MGMT/OP	
19.1.11	Load bearing cylinder collapses due to inelastic stability	Cylinders are assessed in accordance with AS1418.10 – 2011 clause 2.9.1.2.1.		2 1 2 1	_	_	6 H	equipment from elevated platform using ropes. Ensure that any faults are reported directly to management and machine			
	(buckling) due to overload.	MEWP fitted with load sensing system designed to prevent overloading due to vertical loads. (See).			. 3		[°] Nor	is withdrawn from service. Ensure MEWP is not overloaded during operation.			
19.2	Overturning/loss of stability										

RISK ASSESSME	NT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C			D	D1 [D2	DE	F	G	Н
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency Probability	Froudulity	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
19.2.1	Maximum rated capacity is exceeded.	Load sensing system fitted to platform which prevents platform overload from vertical loads. (See 20.2). See also 19.1.1	1	2 1	1	3	6	TOW			
19.2.2	Maximum manual force is exceeded.	See 19.1.2	1	2 1	1 :	3	6	NO			
19.2.3	Excessive wind speed or wind load.	See also 19.1.3	1 2	1	3	6	3	Ensure that the unit if not parked unattended with the MEWP fully elevated.	Yes	MGMT/OP	
19.2.4	Overturning on excessive slope	Warning in Operators Manual [p. 17] not to drive on or near uneven terrain or unstable surfaces.	1	2 1	1 :	3	6	Ensure that the MEWP is not operated on slopes which exceed the limits listed in the manual and on the data plate.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 17] not to exceed the gradeability. Instruction in Operators Manual [p. 72] describing tilt recovery. Maximum inclinations are detailed on the data plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),						Ensure that operators observe the till recovery instructions. Ensure that the tilt alarm and cutout is tested per the manual.	Yes Yes	MGMT/OP MGMT/OP	
19.2.5	Overturning due to exceeding the maximum permitted number of operators in the work platform.	J- Specifications in Operators Manual [Section 7] detailing the maximum platform capacities which include the maximum number of persons permitted in the work platform for both high and low capacity use.	1 2	1		3	6	Ensure that operator's are trained to restrict the number of personnel in the work platform in respect of the manufacturers limits for both indoor and outdoor use.	Yes	MGMT/OP	
		Decal [173608(SJ45AJ+), 173607(SJ60AJ+), (0),] listing the platform capacity limitations for both indoor and outdoor use fitted in work platform.						Ensure that the maximum number of operator's does not exceed the manufacturers limits for both indoor and outdoor use.	Yes	MGMT	
20	Hazards due to lifting persons										
20.1 20.1.1	Mechanical strength Mechanical strength of extending structure is insufficient to support platform loads.	Mechanical strength has been assessed in accordance with AS1418.10 – 2011.	1	2 1	1	3	6	Verify expected loading and confirm it is less than Rated Capacity.	Yes	MGMT/OP	
	opport platoni loado.	Platform load sensing system fitted in accordance with AS1418.10 – 2011 clause 2.3.1.2. Pre-Operation Checks included in the operator's manual [39].						Audit the rated capacity of the anticipated load on a regular basis. Conduct preoperation checks in accordance with the manual.	Yes Yes	MGMT MGMT/OP	
20.1.2	Structural failure due to dynamic loading.	Dynamic loads are accounted for in the design standard against which the MEWP is assessed.	1	2 1	1 :	3	6	Ensure that the system function speeds are set and maintained to the specifications listed in the manual.	Yes	MGMT	
		The load cases used for the structural analysis includes the dynamic load case.						Ensure the MEWP is maintained in a manner to minimise the excessive backlash between components.	Yes	MGMT	
		The acceleration due to travelling motions have been measured and accounted for in the structural analysis. Function Speeds are listed in the Service Manual [p. 46].									
20.1.4	Injury from using the MEWP in an unsuitable condition due to		4	3 2	2	3	8	Ensure that pre-start inspections are completed prior to use of MEWP.	Yes	MGMT/OP	
	poor maintenance or inspections.	Information in Operators Manual [p. 39] detailing pre-operation checks Maintenance instructions provided which includes maintenance instructions for all anticipated						Ensure that MEWP is not used if any defects are found. Ensure that any damage or accidents that involve the MEWP are	Yes Yes	MGMT/OP MGMT/OP	
		maintenance requirements over the life of the MEWP. Instruction in Operators Manual [p. 48] to check nuts, bolt and other fasteners.						reported to the relevant manager/authorities. Modify maintenance program according to use and the operating environment.	Yes	MGMT/OP	
		Note in Operators Manual [p. 46] to check for cracks.						Ensure that the unit is checked, repaired and maintained by appropriately trained/qualified and experienced personnel in accordance	Yes	MGMT/OP	
		Instruction in Operators Manual [p. 46] to check tyres.						with the checklists contained in the operation manual. Ensure all inspections, servicing, replacement of parts and modifications are entered into logbook.	Yes	OP	
		Information in Operators Manual [p. Section 4.2] detailing maintenance procedures						Use equivalent replacement parts and log replacement. Instruct the operator/competent person to report all faults to management.	Yes Yes	MGMT MGMT/OP	
20.1.5	Persons could be injured as a result of structural fatigue failure – Road Transport.	Note in Operators Manual [p. 46] to check for cracks.	4	2 1	1 :	3	6	Ensure the operators are instructed to properly stow unit prior to transportation.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 77] to secure the turntable rotation lock before transporting.						Ensure the elevating structure & platform is restrained during transportation.	Yes	MGMT/OP	
		Warning in Operators Manual [p. 79] to secure the platform and chassis using tie downs. Decals fitted identifying tie down points [124767].									
20.1.6	Failure due to corrosion resulting from ingress of moisture and debris into the extending structure.	All ferrous metals are primed and painted to prevent corrosion.	4	2 1	1	3	6	Regularly inspect the interior of the MEWP elevating structure.	Yes	MGMT/OP	
								Clean the unit of all debris on a regular basis. Reinstate all damaged covers.	Yes Yes	MGMT/OP MGMT/OP	
20.1.7	Injury as a result of excess water/debris in platform.	The work platform floor is self-draining as per the requirements of AS1418.10 – 2011 clause 2.5.7.	1	2 1	1	3	6	Ensure that the platform is cleaned regularly to prevent a build-up of debris.	Yes	MGMT/OP	
								Ensure the platform is stored in a location which prevents the build-up of debris.	Yes	MGMT/OP	
20.2	Loading control										
20.2.1	Rated capacity is exceeded.	MEWP is fitted with a load sensing system.	3	3 3	3	1	7	Ensure preoperational checks are performed in accordance with those outlined in operators manual.	Yes	MGMT/OP	
		Note in Operators Manual (p. 31, 32) describing operation of the platform overload system						Ensure that any faults are reported directly to management and machine is withdrawn from service.	Yes	MGMT/OP	
		The maximum Rated Capacity is listed in the operator's manual [p. 93 (SJ45AJ+), 93 (SJ60AJ+),].						Ensure calibration checks are performed in accordance with the service	Yes	MGMT/OP	
		Warning in Operators Manual [p. 18] to not to exceed the rated load.		I	1			Ensure MEWP is not overloaded during operation.	Yes	MGMT/OP	

RISK ASSESSMI	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C			D1	1 D2	2 D	E	F	G	Н
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALKEADT implemented	Severity	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
		Instruction in Operators Manual [p. 54] to test the load sensing system.						Ensure that operators are familiar with the operation of the load sensing system.	Yes	MGMT/OP	
		Rated capacity is displayed in the ID plate. [238852AC(SJ45AJ+), 238855AA(SJ60AJ+), (0),]. Warning label fitted [218494] which includes warning not to overload platform.									
:1	Controls										
1.1	Movement of Work Platform									For Action by	
1.1.1	Due to accidental impact or engagement – unintentional activation of controls.	Controls comply with AS1418.10 – 2011 clause 2.6.	4	4 2	3	9	·	Maintain controls and their marking.	Yes Yes		
		Function enable switch provided which must be pressed and held for controls to be activated (two separate actions required for movement to take place). All controls are of the hold to run type and return to neutral on being released.					н	Ensure operators are familiar with the control layout and function. Ensure control switches automatically return to neutral when released.	Yes		
							Ŧ				
		The direction of movement resulting from each control is clearly marked beside the control and controls are arranged for logical operation as far as possible. Symbols used for marking comply with ISO20381.						Ensure that all incidents in relation to the machine are reported and acted on.	Yes	MGMT/OP	
.1.2	Hydraulic control failure	Hydraulic filters fitted.	1	2 1	3	6	NO	Ensure that hydraulic system is maintained as per manufacturer's instructions.	Yes	MGMT/OP	
		Maintenance manual provided which includes service requirements for hydraulic system.					-				
1.1.3	Control conflict using emergency power system.	Overriding emergency system designed in accordance with AS1418.10 – 2011 clause 2.6.10.	1 :	2 1	3	6		Ensure operators are familiar with the emergency lowering procedures prior to operating the MEWP.	Yes	MGMT/OP	
1.2	Safe travel control			_		_					
1.2.1	Excessive travel speed leads to machine instability.	MEWP travel speed is automatically reduced when the platform is elevated out of the transport position.	1	2 1	3	6	;	Ensure that maximum travel speeds are maintained in accordance with manufacturer's specifications.	Yes	MGMT/OP	
		Maximum travel speeds are fixed.					LOW	Ensure MEWP travel speed is automatically reduced when the platform is elevated out of the transport position.	Yes	MGMT/OP	
		Travel speeds given in operator's manual [Section 7]. Instruction in Operators Manual [p. 60] to test elevated travel speed.									
1.2.2	Operator ejected whilst travelling over kerbs or depressions	Dynamic stability tests conducted in accordance with AS1418.10-2011 clause 3.6.3.2.		-	1.			Ensure operators are aware of this hazard.	Yes	MGMT/OP	
			1 :	2 1	3	6	NO N			G For Action by Whom MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP MGMT/OP	
	Outer and a sectoral	Instruction in Operators Manual [p. 17] to check check for drop offs, concealed holes.					-	Ensure operators check for drop offs and kerbs.	Yes	MGMT/OP	
1.3 .3.1	Safe speed control Injury due to excessive platform movement speeds.	Extending structure speeds comply with AS1418.10 – 2011 clause 2.3.6.		T	1	-	_	Ensure that the maximum speeds do not exceed 100% (the factory	Yes	MGMT/OP	
1.3.1	injury due to excessive platform movement speeds.		3	2 1	3	6	MU	default speed). Ensure that machine is maintained in accordance with manufacturer's	Yes		
		Maximum system speeds are fixed and cannot be altered by the operator. Function speeds are listed in the Service Manual (p. 46).					MEC	instructions and all settings are maintained.	res	MGM1/OP	
2	Falling of persons	Function speeds are listed in the Service Manual (p. 40).									
2.1	Personal protective equipment										
2.1.1	Operator falls from elevated platform.	Guardrail system designed in accordance with AS1418.10 – 2011 clause 2.5.4.	3	2 2	3	7		Instruct operators to wear fall restraint/arrest harness' at all times when in the platform and to attach the fall restraint/arrest lanyard to the anchor point provided.	Yes	MGMT/OP	
		Fall restraint anchorage points provided					N	Ensure harness and lanyards are in good condition.	Yes		
		Warning in Operators Manual [p. 17] to stay inside platform Warning in Operators Manual [p. 19] to wear harness					MED	Audit use of fall restraint/arrest devices. Ensure that platform guard rails are properly fitted and not damaged.	Yes Yes		
		Warning in Operators Manual [p. 17] not to climb on guardrails									
2.1.2	Falling from guardrails, ladders or stools located in the work	Labels fitted [172646] which identifies harness anchorage points. Requirements per AS2550.10.		_	_	_		Ensure that operators do not use any means to gain additional height.	Yes	MGMT/OP	
.1.2	platform.	Warning in Operators Manual [p. 17] not to use additional ladders or steps	4 :	2 2	3	7		Ensure that operators do not use any means to gain additional height.	Yes		
		Warning in Operators Manual [p. 19] not to exit platform when raised.					HIGH	Ensure the correct MEWP in terms of rated capacity, height and reach is	Yes	MGMT/OP	
		Warning in Operators Manual [p. 47] to close the gate or lower the midrail before operating. Warning in Operators Manual [p. 17] to stay inside platform						used for the particular task at hand.			
2.1.4	Operator falls through the platform access opening.	If platform gate option fitted they are designed in accordance with AS1418.10 – 2011 clause 2.5.6 and is self-closing and latches in the closed position.	4	2 1	3	6	;	Ensure that personnel do not exit the platform except at ground level.	Yes		
		If platform gateoption is fitted the gate opens inwards. Warning in Operators Manual [p. 47] to close the gate or lower the midrail before operating.					1GF	Audit use. Ensure gate is maintained in accordance with manufacturers	Yes Yes		
								instructions.			
		Instruction in Operators Manual (p. 47) to check guardrails						Ensure MEWP is not used if gate is faulty.	Yes		
2.1.5	Stepping out of elevated platform onto structures.	Requirements provided in AS2550.10, see clause 5.9 and figure 5.9(B).	4	1 1	3	5		Ensure that operator egress at heights is prohibited unless in an emergency and there is a safe means to do so. Ensure that the operator does not egress from the platform at height	Yes		
		Warning in Operators Manual [p. 19] not to exit platform when raised.					HIGH	Ensure that the operator does not egress from the platform at height unless secured via a twin lanyard assembly to a secure anchor point on a fixed structure.	res	WIGWIT/OP	

RISK ASSESSME	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINARY	(Refer to "Not	es" section)
Α	В	C			D	D1 D	02	D E	F	G	Н
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or illness)		Severity	Frequency Probability	Avoidance	Avoidance	Class	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
								Refer to requirements per AS2550.10, see clause 5.9 and figure 5.9[B].	Yes	MGMT/OP	
22.1.6	Personnel fall through guard rails which have not been properly installed or locked in place.	Warning in Operators Manual [p. 17] not to climb on guardrails	4	1 1	1 3	3 5	5	Ensure that pre-operational inspection includes a check of the correc installation and locking of the guard rails.	t Yes	MGMT/OP	
		Warning in Operators Manual [p. 17] to stay inside platform						Ensure that the operator follows all instructions provided in the operator's manual regarding the procedure for installation of the work platform guard rails.	s Yes	MGMT/OP	
								Ensure that the MEWP is not operated unless all guard rails are correctly installed.			
22.1.7	Operator ejected from the platform due to failure of the levelling system.	Safety Hamess anchorages provided which are tested and labelled as per AS1418.10 – 2011 clauses 2.5.5 & 4.2.2(j).	3	2 1	1 3	3 6	6	Instruct operators to wear fall restraint/arrest harness' at all times wher in the platform and to attach the fall restraint/arrest lanyard to the anchor point provided.	n Yes r		
		Hydraulic cylinders used in levelling system are designed to AS1418.10 – 2011 clause 2.9.						Ensure harness and lanyards are in good condition.	Yes		
		Levelling system components designed to withstand twice the imposed load as per AS1418.10 - 2011 clause 2.5.1.					ų,	Audit use of fall restraint/arrest devices.	Yes	MGMT	
		2011 clause 2.5.1. Pre-operational inspection includes checks of structural components and cylinders.						Ensure that pre-operational inspections are conducted as per the manufacturer's instructions.	e Yes	MGMT/OP	
22.2	Trapdoors						N	IS			
22.3 22.3.1	Work platform tilt control										
22.3.1	Operator falls from platform as a result of activation of	Platform level controls only provided at platform.	1	2 1	1 4	3 6	6	Ensure adjustment of the platform level is only performed when it is a	t Yes	OP	
	platform tilt control.	The rotational speed of the work platform level adjustment does not exceed 0.3 rad/s as per		2		3 0		ground level.			
		AS1418.10 - 2011 clause 2.5.2.						<u> </u>			
23	Work platform falling/overturning					-			11		
23.1	Falling/tipping/overturning										
23.1.1	Overturning due to operation on excessive slope.	AS2550.10 – 2006 includes additional advice regarding operation on slopes.			. 1 .			Ensure that the MEWP is operated within the rated slope limitations	s Yes	MGMT/OP	
			4	2 1	1 3	3 6	6	specified.		For Action by Whom MGMT/OP MGMT/OP OP MGMT MGMT/OP MGMT MGMT MGMT/OP OP OP OP	
		Chassis inclination alarms fitted to warn if the permissible slopes are exceeded.					2	Select the correct MEWP for the anticipated slopes at the job site.	Yes		
		Warning in manual regarding overturning hazards [p. 16]. The chassis inclination limits are listed on the data plate [238852AC(SJ45AJ+), 238855AA(SJ60AJ+),					3				
		(0),].									
		For Type 2 & 3 MEWPs see 11.2.6.									
23.1.2	Overturning as a result of setting up on uneven surfaces.	Warning in operator's manual [p. 19] that a survey of the work area should be performed for hazards such as for electric power lines., check for drop offs, concealed holes. and overhead obstructions.	4	2 1	1 3	3 6	6	Ensure that operators are trained relating to proper setup, including the necessity to set up on flat surfaces within the limits specified both fore and aft and sideways.	e Yes	MGMT/OP	
		Warning in Operators Manual [p. 17] not to drive on or near uneven terrain or unstable surfaces.						Ensure operators follow these requirements.	Yes	MGMT/OP	
23.1.3	MEWP overturns due to slipping/driving off planks or similar inappropriate support surface.	Warning in Operators Manual [p. 17] not to drive on or near uneven terrain or unstable surfaces.	4	2 1	1 3	3 6	6	Ensure the MEWP is not operated on planks.	Yes	MGMT/OP	
23.1.4	Overturning due to collapse of support surface.	Additional notes in AS2550.10.	4	2 1	1 3	3 6	6	Ensure the unit is not set up on rough, soft or otherwise hazardous surfaces.	s Yes	OP	
		Maximum wheel/stabiliser loads displayed on MEWP as required by AS1418.10 - 2011 clause 4.2.10.						Seek advice regarding ground/surface capacities as necessary from a competent person.	a Yes		
		Warning in Operators Manual [p. 17] not to drive on or near uneven terrain or unstable surfaces.					9	Ensure that thorough site checks are performed prior to operation.	Yes		
		Maximum wheel load listed in the operator's manual (p. 93 (SJ45AJ+), 93 (SJ60AJ+),]. Maximum wheel loads displayed on MEWP next to wheels [173858(SJ45AJ+), 173740(SJ60AJ+), (0),].						Document procedures.	Yes	MGM1/OP	
23.1.5	MEWP overturns while manoeuvring around job site.	The lowered travel position is limited by the control system.	4	2 1	1 3	з б	6	Ensure the work platform is not raised while travelling at speeds above the permitted elevated drive speed.	e Yes	OP	
		Standard machine specifications included in the operators manual [Section 7], which includes the gradeability.						Ensure the MEWP is driven at reasonable speed around the job site.	Yes	OP	
		Warning in Operators Manual [p. 17] not to exceed the gradeability.						Ensure the gradeability limits are not exceeded whilst travelling.	Yes		
23.1.6	Overturning due to operation on a truck or similar device.	Warning in Operators Manual [p. 18] not to use on trucks or platforms.	4	2 1	1 3	3 6	6	Ensure that the MEWP is not operated whilst on a truck or similar.	Yes		
23.1.7	Overturning due to operator falling out of platform while attached to the harness & lanyard.	Fall arrest stability test results demonstrate compliance with AS1418.10 – 2011 clause 3.6.2.	4	2 1	1 3	36	6	Ensure that operators wear the correct harness and lanyard and that it is in proper condition.	s Yes	MGMT/OP	
								Ensure that the number of operators attached to a single point does no exceed the maximum number permitted.	t Yes	OP	
	Acceleration/braking						N	IS			
	Markings										
24.10	Personnel injured due to missing or illegible safety signs.	Information in Operators Manual [p. Section 8] detailing decals	3	2 1	1 3	3 6	6	Train operators in relation to the meaning of the markers.	Yes		
		Information in Operators Manual [p. 95] detailing control symbology. Instruction in Operators Manual [p. 9, 16, 40] to check decals legible and in place.						Ensure that pre-operational check of safety decals is performed before	e Yes	OP	
24.20	Unclear instructions on safety signs.	All instruction in Operators Manual [b. 9, 10, 40] to check decais legible and in place.	\vdash		+		_	Ensure that operators are familiar with the meaning of all safety signs	s Yes	MGMT/OP	
			1	2 1	1 3	3 6	6	and warnings.	.00		

RISK ASSESSM	ENT: SKYJACK SJ45AJ+ & SJ60AJ+								PRELIMINAR	/ (Refer to "No	tes" section)
Α	В	C			-	D1 D	02 D	E	F	G	н
Hazard No.	Hazard Description -	Is there any risk?									
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	/ Risk Level	Proposed SUPPLEMENTARY risk control measure	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
		Information in Operators Manual [p. 95] detailing control symbology. All numerical values are given in SI units.					ΓΟΛ				
		Symbols used for marking comply with ISO20381.									