Date: December 16, 2022
Part Number: 249729AA

WENN WILKINSON

RISK ASSESSMENT OF PLANT

DATE OF ASSESSMENT: 17/08/2022	MANUFACTURER: SKYJACK MODEL: SJ85AJ	ORGANISATION:	SKYJACK AUSTRALIA
PRELIMINARY ASSESSMENT FOR REVIEW	RISK ASSESSMENT METHOD USED: SAFETY REVIEW	ADDRESS:	LOT 272 HONEYCOMB DVE, EASTERN CREEK, NSW

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 relevant law.

Documentation

Operators manual: 213219AAAA
Maintenance Manual: 229044AGA

Repair manual:
Spare parts manual: 229037AGA
Manual Supplements: 0

Description

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

Sound power level <80 dBA (ISO 3744)
<112 dBA (ISO 4871)

Safety Devices

Load Control	Position Control	Moment Limiting	Slope indication	Outriggers	Wheels	Speed Control	Motion Alarm
Load Sensing	Position Control	NA	Slope Alarm & interlock	NA	Filled Tyres	Elevated Drive Speed control	Motion Alarm

Options

Secondary Guarding	Material Handler	Platform Mesh	Folding Guardrails	Work Lighting	Hydraulic AC Generator	Detatchable Work Platform
Active 2ndry Guarding	NA	NA	Yes	NA	NA	NA

Risk Ranking Matrix

Reference: ISO TR14121.1 Clause 6.5.2

Severity Se		Class Cl (Fr+Pr+Av) 4	5-7	8-10	11-13	14-15	Frequency Fr		Probability Pr		Avoidance 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	4	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.
• 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
2	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:

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
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

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 above).

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.

Risk Management

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;

(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 ASSESSMENT: SKYJACK SJ85AJ										PRELIMINARY (Refer to "Notes" section)			
A	B	C				D1	D2	D	E	F	G	H
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 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
0	**General – Device selection and use**											
0.1	Persons could be injured when following a poor system of work in relation to the operation of this device.	Operating manual provided, part number 213219AAAA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine. Provision for operators manual storage included on the platform. Operating, service & parts manuals provided, part number 213219AAAA, 229044AGA & 229037AGA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine. Service manuals provided, part number 229044AGA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with inspection and maintenanceof the machine.	4	5	4	3	12	HIGH	Prepare a documented system of work having regard to the operating specification and limitations as detailed in the owners operating manual.	Yes	MGMT/OP	
									Verify that the procedure is appropriate having regard to alternative methods that may be available.	Yes	MGMT/OP	
									Verify that the procedure covers all modes of operation of the MEWP (including emergency procedures and maintenance) and is a practicable solution.	Yes	MGMT	
									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	11	HIGH	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	
									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 213219AAAA which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine. Warning in operator's manual [p. 9] to operate the machine in accordance with the manual. Warning in manual [pp. 16, 21] that the MEWP is only to be used by personnel who hold the necessary work permits and/or licenses. Warning in operator's manual [p. 21] 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 instructions contained within the operator's manual are permitted to use the MEWP. Warning in operator's manual [p. 16] that the operator must obey all laws, regulations and job site rules. 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 qualifications are listed in the operator's manual [p. 16].	4	4	3	3	10	HIGH	Ensure that all Standard Work Procedures (SWP's) are effectively implemented.	Yes	MGMT/OP	
									Ensure that the operator(s) have read and understand the training and instructions (which must include Manufacturer's and local information).	Yes	MGMT/OP	
									Ensure that the MEWP is only operated by personnel who are appropriately trained and certified.	Yes	MGMT/OP	
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]. AS2550.10 – 2006 section 4 includes a list of site checks to be undertaken by the operator.	4	4	3	1	8		Ensure that operators are aware of the requirements of AS2550.10.	Yes	MGMT/OP	
									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	

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A	B	C				D1	D2	D	E	F	G	H
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 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
		Warning in operator's manual [p. 19] that a survey of the work area should be performed for hazards such as electric power lines, drop offs, concealed holes and overhead obstructions. Warning in operator's manual [p. 21] that the operator must know all national, state or territorial and local rules which apply to operation of the MEWP and jobsite.						HIGH	Ensure a site hazard assessment is conducted before use on each site.	Yes	MGMT/OP	
									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.	Yes	OP	
0.5	Hazards arising from lack of, or inadequate emergency procedures.	Emergency retrieval procedures are detailed in the operator's manual [p. 65]. Decal fitted adjacent to the emergency controls explaining the operation [172495ABZZ].	4	1	3	3	7	HIGH	Ensure operators are trained in emergency retrieval and operation.	Yes	MGMT/OP	
									Ensure that refresher training is undertaken by operators on a regular basis.	Yes	MGMT/OP	
									Ensure that ground personnel are present who are trained in the emergency lowering procedures.	Yes	MGMT/OP	
0.6	Hazards arising from working alone.	Instructions provided in AS2550.10 – 2006 clause 5.14 regarding the assistance that shall be available from ground support personnel prior to operation. Instructions in operator's manual [p. 19] regarding the dangers of working solo and recommendations that ground personnel who are trained in the emergency retrieval procedures are present.	4	3	3	1	7	HIGH	Establish protocols and procedures to ensure a timely and appropriate response in emergencies in accordance with AS2550.10 requirements.	Yes	MGMT	
									Ensure that workers do not work solo. If not practicable ensure that all operators working solo are equipped with portable communications equipment.	Yes	MGMT	
									Ensure all operators report in when attending site and on a routine basis thereafter.	Yes	MGMT	
0.7	Personnel are injured due to unauthorised use.	Key switch provided in accordance with AS1418.10 – 2011 clause 2.2.14. Instructions provided in operator's manual [p. 18] to secure the MEWP when not in use against unauthorised use. Battery cut-out switch provided. Warning in operator's manual not to leave the MEWP unattended with the key in the key switch [p. 18].	3	2	3	1	6	MEDIUM	Ensure that workplace procedures are established regarding securing the MEWP at the end of each day.	Yes	MGMT/OP	
									Ensure that the MEWP is secured against unauthorised use at the end of each shift or when it is left unattended.	Yes	OP	
0.9	Persons injured due to unrecognised hazard.	Preliminary Hazard ID prepared and provided for review.	2	2	3	3	8	MEDIUM	Ensure that Risk Assessment has been conducted for the particular operation to be undertaken.	Yes	MGMT/OP	
									Update hazard ID as necessary (see notes on page 1).	Yes	MGMT	
									Implement risk control measures having regard to the hierarchy of control measures available.	Yes	MGMT/OP	
									Regularly review Hazard ID and update as required.	Yes	MGMT/OP	
1	**Mechanical hazards (due to events that may arise 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. Controls are fitted in the platform and provide the operator with a clear line of sight of the intended path of the platform. Warning in operator's manual [p. 19] to avoid overhead obstructions or other possible hazards. Warning in operator's manual [p. 19] to take care and study the surroundings including overhead obstructions before actuating control functions.	4	1	4	1	6	HIGH	Ensure that operators, observe the surroundings and move at appropriate speeds.	Yes	OP	
									If necessary ensure ground personnel are present to warn operator against potential obstructions and take corrective or emergency action if necessary.	Yes	MGMT/OP	
									Ensure a safe work method statement is prepared if the MEWP is to be engaged in operations where overhead hazards exist.	Yes	MGMT/OP	

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A	B	C				D1	D2	D	E	F	G	H
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 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 list of job site hazards included in operator's manual [p. 19] includes checking for overhead obstructions. Warning decal fitted to take care with regard to the danger of overhead obstructions [173192]. Secondary guarding system fitted which prevents further aggravating boom movements if the system is activated by the operator's body.										
1.1.2	Operator is crushed or suffers impact injury during travelling.	Platform controls are arranged so that the operator must be standing in front of the control panel to actuate travel control functions. Warning in operator's manual [p. 19] to avoid overhead obstructions or other possible hazards around MEWP. Warning in operator's manual [p. 19] that a survey of the work area should be performed for hazards such as floor obstructions/ bumps and overhead obstructions. Decal fitted [198131] to controls which clearly indicate the direction of actuator movement for desired travel direction. Anti-entrapment system fitted which prevents further aggravating boom movements if the system is activated by the operator's body.	4	1	2	3	6	HIGH	Ensure that operators, observe the surroundings and move at appropriate speeds.	Yes	MGMT/OP	
									Ensure that operators avoid kerbs or depressions that could result in large movements of the platform when travelling.	Yes	OP	
									If necessary ensure ground personnel are present to warn operator against potential obstructions and take corrective or emergency action if necessary.	Yes	MGMT/OP	
1.1.3	Operators crushed due to inadvertent operation.	Controls comply with AS1418.10 – 2011 clause 2.6. 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. Upper & Lower controls require two deliberate and simultaneous actions by the operator before they function. 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. Function enable has a 10 sec timeout.	3	2	1	3	6	MEDIUM	Maintain controls and their marking.	Yes	MGMT/OP	
									Ensure operators are familiar with the control layout and function.	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. Warning in the operator's manual that personnel in the platform are to keep their hands within the confines of the platform when it is in motion [p. 17]. Warning in the operator's manual that personnel are to keep all body parts within the confines of the platform [p. 17]. Warning decal [137988AC] fitted which identifies possible hand crush zone. Proportional controls used to enable precise platform movement when controls are activated. Platform is fitted with hand holds within the platform.	3	2	1	1	4	LOW	Ensure that personnel are trained with respect to this hazard.	Yes	MGMT/OP	
									Ensure additional ground personnel are present to observe and warn operators against potential obstructions.	Yes	MGMT/OP	
									Ensure that personnel are trained to look in the direction of travel.	Yes	MGMT/OP	
1.1.5	Operator crushed as a result of MEWP sliding down a ramp or other slippery surface.	Warning in the operators manual [p. 17] not to exceed the slope limits of the MEWP. Instructions and precautions included in operator's manual for loading and unloading [section 6.5]. Warning in operator's manual [p. 16] that MEWP is to be operated on firm level surfaces.	3	2	1	1	4	LOW	Ensure operators are well trained in regards to the potential hazard.	Yes	MGMT/OP	
									Ensure MEWP is not set up on ramps or other slippery surfaces.	Yes	OP	

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A	B	C				D1	D2	D		E	F	G	H
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	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
1.1.6	Operator crushed or suffers impact injury as result of incorrect travel direction.	The drive orientation changes when the turret is swung 90 degrees off-centre of the normal driving position. Drive re-orientation will not occur while driving and rotating until the joystick is released for 6 seconds or when the footswitch is released. Decal fitted [198131] to controls which clearly indicate the direction of actuator movement for desired travel direction.	3	2	1	1	4	LOW		Train operators to be aware of these hazards.	Yes	MGMT	
										Ensure operators are familiar with the system and to follow/observe the direction arrows on the MEWP.	Yes	MGMT/OP	
1.1.7	Ground personnel crushed whilst machine is operating during normal use.	Warning lights are fitted to increase the visibility of the MEWP. Motion alarm (beeper) is fitted which sounds when the MEWP is in motion. Control positions provide the operator with visual contact with the resulting platform movements. Warning in manual [p. 19] use a spotter if necessary. Warning in operator's manual [p. 19] check the surrounding area for obstructions before raising or lowering. Warning in operator's manual [p. 51] not to lower the platform unless the area below is clear of personnel and obstructions. Body crush zone warning label fitted [223640]. Warning label fitted [173192] to make sure that no person or obstacle is around the machine. Warning label fitted [173192] to keep away from overhead obstructions.	3	3	1	1	5	MEDIUM		Ensure that the area around the MEWP is controlled and barricaded.	Yes	MGMT/OP	
										Ensure that ground personnel keep clear of the MEWP while it is in operation.	Yes	OP	
										Ensure that personnel are trained with respect to this hazard.	Yes	MGMT	
										Ensure that personnel do not enter the area underneath the platform.	Yes	OP	
1.2	**Shearing hazard**												
1.2.1	Personnel injured due to shear hazard at elevating mechanism (booms, mast, articulating/scissor arms etc.).	Joint member clearances as per AS1418.10 clause 2.3.4. Operator located away from hazard during normal operation. Audible alarm fitted which sounds whenever the platform is lowering. Warning labels fitted at shear hazard locations [119866].	3	2	1	1	4	LOW		Ensure personnel are trained and aware of this hazard.	Yes	MGMT/OP	
										Ensure that all guards are in place before operation.	Yes	OP	
										Ensure that personnel keep clear of moving parts whilst the MEWP is in motion.	Yes	OP	
1.2.4	Shear hazard to personnel closing guards, engine covers or battery doors.	Handles provided on the guard/cover. Warning labels fitted at shear hazard locations [119866].	1	2	1	3	6	LOW		Ensure that operators are aware of the residual risks.	Yes	MGMT/OP	
1.3	**Cutting or severing hazard**								NS				
1.4	**Entanglement hazard**												
1.4.1	Hazard number not used.	See 11.1											
1.5	**Drawing-in or trapping hazard**												
1.5.1	Hazard number not used.	See 11.1											
1.6	**Impact hazard**												
1.6.1	Impact injury to personnel from MEWP collision with vehicular traffic.	Warning lights are fitted to increase the visibility of the MEWP. An audible alarm sounds whenever the MEWP is in motion. Instruction in operator's manual [p. 16] that operator's are required to conform to national, state or territorial/provincial and local health and safety regulations applicable to the operation of the MEWP.	1	2	2	3	7	LOW		Implement a traffic management system.	Yes	MGMT/OP	
										Ensure a traffic management system is enforced, should the MEWP be exposed to vehicular traffic.	Yes	MGMT/OP	

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A	B	C				D1	D2	D	E	F	G	H
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 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
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. A pressure relief valve is installed which limits the maximum system pressure. Pipes and connections designed for twice maximum pressure. Burst pressure of hoses at least three times the maximum pressure. All other components are designed to withstand the pressures they are likely to experience including, during set-up, testing, inspection and normal maintenance. A pressure gauge connection port is provided on the manifold block allowing maintenance personnel check and set the pressure relief valve correctly.	1	2	1	3	6	LOW	Ensure that personnel are properly trained and aware of the hazard.	Yes	MGMT/OP	
									Ensure that the correct pressure setting is maintained as per the operation manual instructions.	Yes	MGMT/OP	
									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	
									Ensure that the correct pressure setting is maintained as per the operation manual instructions.	Yes	MGMT/OP	
									Ensure that SWP's for maintenance include first aid requirements for such injuries.	Yes	MGMT/OP	
1.10	**Ejection of parts**							NS				
1.11	**Loss of stability (of machinery and machine parts)**											
1.11.1	Persons could be injured as a result of instability or overturning. Overturning due to overload: See 19.2 Overturning - generally See 23	MEWP stability is calculated and tested in accordance with AS1418.10 – 2011 clause 3.6.3.	4	2	1	3	6	HIGH	Train operators in respect of proper siting and precautions necessary to ensure stability.	Yes	MGMT	
									Ensure that operators read and understand the instructions and precautions listed in the operator's manual prior to use.	Yes	MGMT/OP	
									Ensure that thorough site checks are performed prior to operation.	Yes	MGMT/OP	
									Audit work practices on a regular basis to ensure safe work procedures are being followed.	Yes	MGMT/OP	
1.12	**Slip, trip and fall hazards**											
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. Warning in manual stating that operator should only enter or exit platform from the ground only [p. 19]. Note in manual to use care when accessing and egressing from the platform and to use three points of contact [p. 19].	2	4	2	3	9	MEDIUM	Ensure operators maintain 3 points of contact when accessing the platform.	Yes	OP	
									Ensure that the platform is only entered or exited when it is fully lowered.	Yes	OP	
									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	MEDIUM	Ensure the work platform floor is clear of debris and clean.	Yes	OP	
									Ensure that any damage is repaired immediately.	Yes	MGMT/OP	
2	**Electrical hazards**											
2.1	**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. Legislative requirements to maintain clearances. Safe approach distances are listed in the operator's manual [p. 15] which are consistent with AS2550.10 requirements. Warning in operators manual [p. 16] to check and abide by local regulations for minimum safe approach distances. Warning label fitted [172693] at chassis and platform that MEWP is uninsulated.	4	3	3	3	9	HIGH	Ensure that No-go zones and/or clearances and conditions permitted according to local regulation are observed.	Yes	MGMT/OP	
									Ensure that safety decals and warnings are maintained as per requirements listed in the operating instructions.	Yes	MGMT/OP	
									Ensure that operators are trained with respect to the hazard posed by overhead electrical conductors and equipment.	Yes	MGMT/OP	
									Ensure spotters are present to warn operator of getting too close to overhead conductors.	Yes	MGMT/OP	

RISK ASSESSMENT: SKYJACK SJ85AJ										PRELIMINARY (Refer to "Notes" section)			
A	B	C				D1	D2	D	E	F	G	H
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 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
		Jobsite inspection list in operator's manual [p. 19] includes a check for overhead conductors. Clearance distance labels [161631] are fitted at platform.										
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] not to operate near power lines and to maintain minimum safe approach distances. Clearance distance labels [161631] are fitted at platform.	4	2	1	3	6	HIGH	Establish operating procedures to minimize risk when using machine in confined space.	Yes	MGMT/OP	
									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	
									Instruct personnel in respect of revisions.	Yes	MGMT/OP	
2.1.5	Operator electrocuted as a result of conductive materials carried in basket/platform.	Warning in operators manual [p. 15] not to operate near power lines and to maintain minimum safe approach distances.	4	2	1	3	6	HIGH	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.	Yes	MGMT/OP	
									Ensure that conductive materials are not carried in the platform where overhead electrical hazards are located.	Yes	MGMT/OP	
2.2	**Electrostatic phenomena**							NS				
2.3	**Thermal radiation**							NS				
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) and so is not easily susceptible to interference. Individual manufacturers have provided EMC certificates for their parts and therefore do not constitute a risk.	2	2	2	3	7	LOW	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	
3	**Thermal hazards**											
3.1	**Burns and scalds by contact of persons with flames or explosions and also with radiation from heat sources**											
3.1.1	While working in an explosive atmosphere.	Warning in operator's manual [p. 19] not to use in hazardous locations.	4	2	2	3	7	HIGH	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	
									Ensure sufficient ventilation is provided before using MEWP in hazardous locations.	Yes	OP	
3.1.2	Personnel suffer burns due to contact with hot engine components.	Engine is covered.	1	2	1	3	6	LOW	Ensure that personnel are trained with respect to the residual hazard.	Yes	MGMT	
									Ensure the correct PPE is worn when handling hot components.	Yes	MGMT/OP	
3.1.3	Personnel suffer burns due to contact with hot exhaust components.	Exhaust system is fitted out of reach of the operator in the normal operating positions. Ground controls are on the opposite side to the exhaust.	1	2	1	3	6	LOW	Ensure that personnel are trained with respect to the residual hazard.	Yes	MGMT	
									Ensure the correct PPE is worn when handling hot components.	Yes	MGMT/OP	
3.1.4	Operators suffer burns because of fire or explosion whilst carrying fuel or other explosive substances in platform.	Warning in operator's manual [p. 40] to take care when handling flammables or anything that can cause a fire. Warning in operator's manual [p. 40] to have a fire extinguisher and first aid kit ready. Warning in operator's manual [p. 19] if the machine is to be used in a flammable area to ventilate the space.	3	2	2	3	7	MEDIUM	Ensure no explosive materials or fuel is stored on platform during operation.	Yes	OP	
									Ensure that a first aid kit and extinguisher available.	Yes	MGMT/OP	
3.1.5	Personnel injured by fire or explosion while smoking in platform or around flammable liquids at worksite.	Standard SWPs apply. Warning provided in manual [p. 69] do not smoke in an area where MEWP's are stored or refuelled.	3	2	2	3	7	MEDIUM	Prohibit smoking on the jobsite.	Yes	MGMT	
									Ensure that a first aid kit and extinguisher available.	Yes	MGMT/OP	

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		No smoking decal fitted [138146].						N	Identify potential sources of fuel/hazard during site-specific hazard ID.	Yes	MGMT/OP	
3.1.6	Personnel injured as a result of MEWP fire.	Warning in operator's manual [p. 40] to have a fire extinguisher and first aid kit ready.	1	2	1	3	6	LOW	Fit a fire extinguisher on MEWP.	Yes	MGMT	
									Ensure that personnel are familiar with the firefighting procedures listed in the operator's manual.	Yes	MGMT/OP	
									Implement a fire safety plan.	Yes	MGMT/OP	
									Train personnel in the use of the fire extinguisher.	Yes	MGMT/OP	
3.2	**Health-damaging effects from hot or cold work environment**											
3.2.1	Operator injured due to extreme cold or hot temperatures.	Standard Job site procedures apply. Suggested minimum PPE requirements listed in operator's manual [p. 15] for normal use of the MEWP. List of precautions to take in extreme environmental conditions for MEWP preparation listed in the operator's manual [p. 15]. Environmental limits specified in manual [Section 7].	1	2	2	3	7	LOW	Ensure operators are provided the appropriate PPE for the working environment.	Yes	MGMT	
									Ensure that the period of exposure is kept within acceptable levels.	Yes	MGMT/OP	
4	**Hazards generated by noise**											
4.1	**Hearing loss (deafness), other physiological disorders (e.g. loss of balance, loss of awareness, etc.)**											
4.1.1	Noise generated by machine causes hearing loss to operators.	The maximum guaranteed sound power level is [<112 dBA] as per ISO 4871. List of precautions to take in extreme environmental conditions for MEWP preparation listed in the operator's manual [p. 15]. Label provided on the chassis which indicates the sound power level [150976].	1	4	2	3	9	LOW	Ensure that if noise exposure exceeds acceptable levels that either ear protection is worn and/or the operators are removed from the noisy environment.	Yes	MGMT/OP	
4.1.2	Noise generated by machine causes hearing loss to bystanders.	The maximum guaranteed sound power level is [<112 dBA] as per ISO 4871. Label provided on the chassis which indicates the sound power level [150976].	1	2	1	3	6	LOW	Competent person to assess the noise impact on bystanders taking into consideration the environment and other machines operating nearby.	Yes	MGMT	
4.2	**Interference with speech communication, acoustic signals, etc.**											
4.2.1	Injuries exacerbated as a result of insufficient communication procedures or equipment on job sites where noise can affect communication.		1	2	1	3	6	LOW	Ensure that all operators are equipped with portable communications equipment where necessary.	Yes	MGMT	
									Establish protocols and procedures to ensure a timely and appropriate response in emergencies.	Yes	MGMT/OP	
									Ensure that effective communication can be maintained in all instances where the unit is used.	Yes	MGMT/OP	
5	**Hazards generated by vibration**											
5.1	**Vibration caused by machinery**											
5.1.1	Vibration caused by MEWP.	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	1	3	6	LOW				
6	**Hazards generated by radiation**											
6.1	**Electrical arcs**											
6.1.1	Operators suffer radiation burns caused by welding either from the platform or to the MEWP.	Standard welding SWP's apply. Warning in the manual [p. 15] forbidding the use of the MEWP as a ground for welding.	1	3	2	3	8	LOW	Ensure that SWP's are developed and followed when using the MEWP for welding operations.	Yes	MGMT	
									Ensure that only trained personnel perform welding tasks.	Yes	MGMT/OP	
									Ensure that the correct PPE is worn by personnel performing welding tasks.	Yes	OP	
6.2	**Lasers**							NS				
6.3	**Ionizing radiation sources**							NS				

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A	B	C				D1	D2	D	E	F	G	H
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6.4	**Machines using high-frequency electromagnetic fields**											
6.4.1	Hazards caused by emission of EMF	The electrical installation is designed to comply with the requirements of the EMC directive (2004/108/EC) and so is not easily susceptible to interference.	2	2	2	3	7	LOW	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	
7	**Hazards generated by materials and substances processed, used or exhausted by machinery**											
7.1	**Hazards resulting from contact with or inhalation of harmful fluids, gases, mists, dusts and fumes**											
7.1.1	Persons could be injured if the unit is operated indoors without adequate ventilation.	Warning of residual hazard in the operator's manual [p. 39].	2	2	2	3	7	LOW	Ensure that the unit is operated only in well-ventilated areas.	Yes	MGMT/OP	
7.1.2	Operator suffers injuries caused by inhalation of hydrogen gas from batteries.	Battery located away from operating positions. Warning provided in manual [Section 4] regarding hazards associated with conducting battery maintenance. Warning of residual hazard in the operator's manual [p. 39].	2	2	2	3	7	LOW	Ensure operators are made aware of the potential hazard.	Yes	MGMT	
									Ensure MEWP batteries are charged in well ventilated areas.	Yes	MGMT/OP	
									Ensure that only trained personnel conduct maintenance on or near batteries.	Yes	MGMT/OP	
									Ensure that proper maintenance procedures are implemented when working near batteries.	Yes	MGMT/OP	
									Ensure the correct PPE is worn by all personnel performing maintenance on batteries.	Yes	MGMT/OP	
7.1.3	Personnel suffer skin irritations due to contact with operating fluids or materials used in the MEWP.	Standard SWP's apply.	1	3	2	3	8	LOW	Ensure operators are made aware of the potential hazard.	Yes	MGMT	
									Ensure appropriate PPE is worn by personnel.	Yes	OP	
									Ensure that safety data sheets are obtained from the manufacturer where required.	Yes	MGMT	
7.1.4	Burns as a result of exposure to hot oil.	Standard SWP's apply. Operating positions are not in the vicinity of exposed hydraulic hoses.	1	3	2	3	8	LOW	Ensure that personnel are trained and aware of this hazard.	Yes	MGMT	
									Ensure that the appropriate PPE 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. Fuse fitted to main battery lead. Battery isolation switch fitted. Warning provided in manual [Section 4] regarding hazards associated with conducting battery maintenance. Warning in operator's manual [p. 16] not to wear jewellery whilst operating MEWP. Note in manual to disconnect batteries before removing [p. 23].	4	2	2	3	7	HIGH	Ensure that the appropriate PPE is worn by personnel.	Yes	MGMT/OP	
									Ensure that the battery is diconnected before charging	Yes	MGMT	
										Yes	OP	
7.2.2	Personnel injured whilst refuelling MEWP.	Standard SWP's apply. Fuel filler point is located away from heat sources in accordance with AS1418.10 – 2011 clause 2.2.20. Warning in manual [p. 69] not to refuel machine with engine running. Warning in manual [p. 69] to refuel in a well ventilated area.	4	2	2	3	7	HIGH	Ensure standard refuelling practices are adhered to.	Yes	MGMT/OP	
7.3	**Biological and microbiological (viral or bacterial) hazards**							NS				
8	**Hazards generated by a mismatch of machinery with human characteristics and abilities.**											
8.1	**Unhealthy postures or excessive efforts.**											
8.1.1	Excessive effort required to climb into work platform.	Platform can be lowered to within 400mm of the ground.	1	4	1	5	10	W	Ensure that operators always use 3 points of contact when entering and egress of the work platform.	Yes	MGMT/OP	

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		Note in manual to use care when accessing and egressing from the platform and to use three points of contact [p. 19].						LO				
8.2	**Inadequate consideration of human hand-arm or foot-leg anatomy.**							NS				
8.3	**Neglected use of personal protection equipment**											
8.3.1	Persons could be injured due to exposure to UV.	Standard practices apply. Standard Job site procedures apply.	1	3	2	3	8	LOW	Develop and provide specification for appropriate UV protection and its use.	Yes	MGMT/OP	
									Provide UV protective equipment including hat, sunglasses and sunscreen.	Yes	MGMT/OP	
									Instruct operators on the requirements for its use.	Yes	MGMT/OP	
8.3.2	Persons could be injured if equipment is operated while not wearing appropriate PPE.	Requirement specified in AS2550.10 – 2006 clause 5.2. Standard Job site procedures apply. Note in operator's manual [p. 15] for the operator to wear appropriate personal protective equipment.	3	3	2	3	8	HIGH	Provide specification for appropriate PPE including gloves, safety glasses, hard hat and safety footwear as appropriate for the workplace.	Yes	MGMT	
									Instruct operators on the requirements for its use.	Yes	MGMT	
									Ensure appropriate PPE is worn.	Yes	OP	
8.3.3	Operator sustains damage to hearing due to not wearing ear protection in noisy environment.	Standard SWP's apply. Note in operator's manual [p. 15] for the operator to wear appropriate personal protective equipment.	3	2	2	1	5	MEDIUM	Ensure that if noise exposure exceeds acceptable levels that either ear protection is worn and/or the operators are removed from the noisy environment.	Yes	MGMT/OP	
8.3.4	Operator could be injured if working in proximity to bright lights without sunglasses or equivalent.	Standard Job site procedures apply.	1	2	1	3	6	LOW	Identify bright lights located on job sight and react accordingly with setting up of MEWP or wearing appropriate PPE.	Yes	OP	
									Ensure operators are provided with suitable PPE.	Yes	MGMT/OP	
8.3.5	Operator or ground personnel injured because they are not wearing high visibility clothing.	Standard SWP's apply. Requirement specified in AS2550.10 – 2006 clause 5.2. Note in operator's manual [p. 15] for the operator to wear appropriate personal protective equipment.	2	3	2	3	8	MEDIUM	Ensure operators are provided with appropriate PPE suitable for the given task.	Yes	MGMT/OP	
									Ensure operators are wearing appropriate PPE suitable for the given task.	Yes	MGMT/OP	
8.4	**Inadequate area lighting**											
8.4.1	Persons could be injured if the light on the job site is inadequate.	See also 12.1	1	2	1	3	6	LOW	Fit lighting if the MEWP is to be used in areas of low light	Yes	MGMT/OP	
									Monitor lighting levels throughout the operation of the MEWP, as lighting is prone to change relative to time of day.	Yes	OP	
8.5	**Mental overload or under load, stress, etc.**											
8.5.1	Persons could be injured if the operator's performance was inhibited by excessive fatigue.		2	2	2	3	7	LOW	Implement a system to ensure that operators do not work excessive or continuous shifts and manage peak demands.	Yes	MGMT/OP	
									Ensure that operators do not continue use of the MEWP if they feel tired or are suffering from fatigue.	Yes	MGMT/OP	
8.5.2	Operator injured because they do not possess sufficient mental capacity to operate the MEWP.		4	2	2	3	7	HIGH	Ensure all personnel are trained with respect to machine operation.	Yes	MGMT	
									Ensure only trained personnel are permitted to operate MEWP.	Yes	MGMT/OP	
8.5.3	Operator injured due to inattention from boredom.		3	1	2	3	6	MEDIUM	Limit shift hours.	Yes	MGMT	
									Ensure rotation of operators during shift.	Yes	MGMT/OP	
8.6	**Human error**											
8.6.1	Operator or ground personnel injured due to "horse play" or inappropriate use.	Warning in the operator's manual [p. 17] stating MEWP should not engage in horseplay. Warning in operator's manual [p. 21] that the MEWP is only to be used by authorised personnel who are qualified, trained and certified to operate the machine.	3	1	2	3	6	UM	Ensure operators do not engage in horse play or stunt driving.	Yes	MGMT/OP	
									Ensure that only properly trained and licensed personnel use MEWP.	Yes	MGMT/OP	

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A	B	C				D1	D2	D	E	F	G	H
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		Warning in operator's manual [p. 9] that only personnel who have read and understand the operating instructions contained within the operator's manual are permitted to use the MEWP. Warning in manual [p. 16] to obey employers safety rules and worksite regulations.						MEDI	Ensure that when not in use, the platform is secured against unauthorised use.	Yes	OP	
8.6.2	Persons could be injured if the unit is operated by persons under the influence of drugs and/or alcohol.	Standard SWP's apply. 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. Warning in manual [p. 16] to obey employers safety rules and worksite regulations.	3	2	2	3	7	MEDIUM	Ensure that operators do not use the MEWP while under the influence of alcohol or drugs.	Yes	MGMT	
									Instruct the operator that operation while under the influence of alcohol or drugs are prohibited.	Yes	MGMT	
8.6.3	Persons could be injured if the operator's performance is inhibited by poor health or medication with side effects.	Standard SWP's apply. Warning in the operator's manual [p. 18] that the unit is not to be operated by persons whose performance is inhibited by poor health or medication with side effects.	3	2	2	3	7	MEDIUM	Instruct the operator that he/she must report to the supervisor if suffering poor health and safe operating performance could be affected.	Yes	MGMT	
9	**Hazard combinations**											
9.1	Injuries exacerbated as a result of insufficient procedures or equipment.	Emergency retrieval procedures are detailed in the operator's manual [p. 65]. Decal fitted adjacent to the emergency controls explaining the operation [172495ABZZ].	4	2	1	3	6	HIGH	Establish and audit routine emergency procedures.	Yes	MGMT	
									Display emergency phone numbers and contact procedures at the site in ready display to the appropriate personnel.	Yes	MGMT	
									Periodically verify emergency equipment and supplies.	Yes	MGMT	
9.2	Hazards caused by improper procedures following contact with live conductors.	See AS2550.10 -- 2006 clause 5.8.4 for correct procedures following contact.	4	1	1	3	5	HIGH	Ensure that all personnel are trained and aware of the necessary procedures required following the accidental contact with live overhead conductors.	Yes	MGMT	
									Ensure that the unit is withdrawn from service and appropriately assessed by a competent person.	Yes	MGMT/OP	
									Immediately isolate the unit for 24 hours.	Yes	MGMT/OP	
10	**Hazards caused by failure of energy supply, breakdown of machinery parts & other functional disorders**											
10.1	**Failure of energy supply (of energy and/or control circuits)**											
10.1.1	Operator trapped in an elevated position due to failure of main energy supply.	MEWP is fitted with an emergency system which does not rely on the primary power source to enable rescue if the operator becomes trapped in an elevated position due to failure of main energy supply. Emergency retrieval procedures are detailed in the operator's manual [p. 65]. Decal fitted adjacent to the emergency controls explaining the operation [172495ABZZ]. All solenoid valves return to the neutral position if power is lost. Maintenance/service manuals [part number 229044AGA] prepared which cover all aspects of maintenance of the control and braking systems.	3	2	2	3	7	MEDIUM	Ensure operators are trained in the use of the emergency lowering systems.	Yes	MGMT/OP	
									Ensure that the emergency system is checked on a periodic basis.	Yes	MGMT/OP	
									Ensure that the MEWP undergoes a pre-operational inspection prior to every use in accordance with the manufacturer's instructions.	Yes	MGMT/OP	
									Ensure that the MEWP is not operated if any faults are detected during the pre-operational inspections.	Yes	OP	
10.2	**Unexpected ejection of machine parts or fluids**							NS				
10.3	**Failure/malfunction of control system**											
10.3.1	Uncontrolled motions due to control system failure.	Emergency stop switches fitted at the control positions. Control systems designed in accordance with AS1418.10 – 2011 clause 2.6. Pre-operational inspection includes functional test of controls. [section 4].	3	1	1	3	5	MEDIUM	Ensure that all pre-operational inspections are performed in accordance with the manufacturer's instructions prior to use.	Yes	MGMT/OP	
									Ensure that all control system faults are logged and reported to service personnel.	Yes	OP	
									Ensure that the machine is not operated if any faults exist.	Yes	OP	

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10.4	**Errors of fitting**											
10.4.1	Personnel exposed to hazards due to incorrect fitting of components during manufacture.	Manufacturer has a quality assurance system in place which involves mulliple checks of critical components during the manufacturing process. Production tests are conducted in accordance with AS1418.10 – 2011 clause 3.3 upon completion of manufacture.	3	2	1	3	6	MEDIUM	Ensure that only qualified service personnel are charged with the maintenance of the MEWP.	Yes	MGMT	
									Ensure they follow the instructions provided in the repair manual.	Yes	MGMT	
10.4.2	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. Detailed instructions are provided in the maintenance section which covers correct hose fitting procedures. Warning provided in the operator's manual that only trained and qualified personnel should perform maintenance [p. 13]. Warning in operator's manual [p.13] to only use genuine spare parts.	3	2	1	3	6	MEDIUM	Ensure that only qualified service personnel are charged with the maintenance of the MEWP.	Yes	MGMT	
									Ensure they follow the instructions provided in the repair manual.	Yes	MGMT	
10.4.3	MEWP overturns because incorrect wheels/tyres have been fitted.	Warning in operator's manual [p. 43] that intermixing of tyres is prohibited and that only wheels/tyres approved by the manufacturer may be fitted. Warning decal fitted [142384AA] warning of fitting tyres which are not approved by the manufacturer.	3	2	1	3	6	MEDIUM	Ensure that only approved wheels/tyres are fitted.	Yes	MGMT	
									Ensure that only qualified service personnel are charged with the maintenance of the MEWP.	Yes	MGMT	
									Ensure they follow the instructions provided in the repair manual.	Yes	MGMT	
10.5	**Overturn, unexpected loss of machine stability**							NS				
10.5.2	Due to tyre/wheel failure.	Foam filled tyres fitted. Daily preventative maintenance checklist [p. 43] includes a check of the condition of the wheels and tyres. Information provided in the service manual regarding acceptance criteria for tyres [p. 22].	4	2	2	3	7	HIGH	Ensure operators perform checks of wheels/tyres before using MEWP.	Yes	MGMT/OP	
									Ensure that tyres are replaced as necessary with original specification.	Yes	MGMT/OP	
11	**Hazards caused by (temporary) missing and/or incorrectly positioned safety- related measures/means**											
11.1	**All kinds of guards**											
11.1.1	Personnel exposed to hazards within the engine area because guard on engine is missing.	Cover fitted over engine.	1	2	1	3	6	LOW	Ensure that guards are not removed, or altered without the written approval of the manufacturer.	Yes	MGMT/OP	
									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 in operation.	Yes	OP	
11.1.2	Personnel exposed to hazards around slew gear area because guard on slew gears is missing.		1	2	1	3	6	LOW	Ensure that personnel keep clear of the turret area whilst the MEWP is in operation.	Yes	MGMT/OP	
									Ensure that guards are not removed, or altered without the written approval of the manufacturer.			
11.1.3	Unintentional activation of controls due to entanglement of hoses or cables with joystick.	Guarding around platform controls minimises the risk of entanglement. Constant pressure function enable switch fitted which must be activated in order for elevating structure movements to occur.	3	1	1	3	5	MEDIUM	Ensure operators are aware of the residual risk.	Yes	MGMT/OP	
11.2	**All kinds of safety-related (protection) devices**											
11.2.1	Hazards arising due to safety switches being overridden.	Warning in operator's manual [p. 15] not to disable any safety device. Preoperational checks specified in Operators manual. [section 4]. Decal fitted [156613] which states do not alter or disable any safety switch or device.	4	2	1	3	6	HIGH	Ensure that safety devices are not tampered with and are in good condition before use of machine.	Yes	MGMT	
									If any faults are discovered do not use machine until all faults are rectified.	Yes	MGMT/OP	
11.2.2	Personnel exposed to hazards due to unauthorised alteration or interference.	Warning in operator's manual [p. 15] that the machine is not to be used if it has been modified or altered in any way without the written approval of the manufacturer.	4	2	1	3	6	HIGH	Seek advice from the manufacturer or a competent person for all modifications/repairs considered during life of MEWP.	Yes	MGMT	

RISK ASSESSMENT: SKYJACK SJ85AJ						D1	D2	D		PRELIMINARY (Refer to "Notes" section)			
A	B	C								E	F	G	H
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 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
		Decal fitted [156613] which states do not alter or disable any safety switch or device.						HI		Ensure that no additions or alterations are performed on the platform without written approval from the manufacturer or their authorised agent in Australia.	Yes	MGMT	
11.2.4	Personnel exposed to hazards because Load Sensing System has been disabled or is incorrectly adjusted.	System designed so that it cannot be easily disabled. Decal fitted [156613] which states do not alter or disable any safety switch or device. Periodic checks of the LSS function is included in the operator's manual [p. 51].	4	2	1	3	6	HIGH		Ensure load sensing system is not tampered with or disabled.	Yes	MGMT/OP	
										Ensure load sensing system is checked at the regular intervals as detailed by manufacturer.	Yes	MGMT/OP	
										Ensure that operators are trained in the correct emergency procedures.	Yes	MGMT/OP	
11.2.6	Persons could be injured as a result of instability or overturning due to operation on excessive slope.	AS2550.10 – 2006 includes additional advice regarding operation on slopes. Chassis inclination indicator system provided which warns the operator if the lateral and longitudinal slope limits of the chassis are exceeded. Chassis inclination interlocks are provided which prevent movement of the platform & elevated drive if the lateral and longitudinal slope limits of the chassis are exceeded. Chassis inclination limitations are provided in the operator's manual [p. 81]. The chassis inclination limits are listed on the data plate [172655AA].	4	2	1	3	6	HIGH		Ensure that the MEWP is operated within the rated slope limitations specified.	Yes	MGMT/OP	
										Ensure that thorough site checks are performed prior to operation.	Yes	MGMT/OP	
										Select the correct MEWP for the anticipated slopes at the job site.	Yes	MGMT/OP	
										Check the operation of the inclination alarms and interlocks in accordance with the manual.	Yes	MGMT/OP	
11.3	**Starting and stopping devices**												
11.3.1	Emergency stop switches malfunction or missing components.	Emergency stop switches comply with AS1418.10 – 2011 clause 2.6.6. Emergency stop switches located at both control stations. Check of emergency stop operation included in pre-start inspection [p. 47].	4	2	1	3	6	HIGH		Ensure that the inspection checks are performed as per instructions in manual.	Yes	MGMT/OP	
										Ensure that any malfunctioning components or systems are repaired prior to use.	Yes	MGMT/OP	
										Ensure that emergency stop switches are present and function correctly before use of MEWP as per pre-start inspection.	Yes	MGMT/OP	
11.4	**Safety signs and signals**												
11.4.1	Personnel injured due to missing or illegible safety signs.	A list and description of all labels fitted to the MEWP is included in the operator's manual [section 8]. Warning in the operator's manual [p. 21] that all safety labels are to be in place prior to use of MEWP. Pre-operational checks [p. 38] include a check of all the safety labels.	3	2	1	3	6	MEDIUM		Conduct pre-operational checks as described in manual.	Yes	OP	
										Maintain signs and replace as necessary.	Yes	OP	
										Ensure all decals are present and legible before using MEWP.	Yes	OP	
11.5	**All kinds of information or warning devices**												
11.5.1	Personnel are not provided with sufficient instruction because operations manual missing from MEWP.	Storage compartment fitted on the platform for manual. Manuals available from manufacturer's website.	3	2	1	3	6	MEDIUM		Ensure the MEWP is supplied with all of the relevant operating manuals.	Yes	MGMT	
										Ensure that the operators check that the operations manual is present before operating MEWP.	Yes	OP	
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	LOW		Ensure that only properly qualified maintenance personnel perform maintenance on the MEWP.	Yes	MGMT	
										Ensure that all instructions provided by the manufacturer are read and understood prior to commencing any maintenance activities on the MEWP.	Yes	MGMT	
11.7	**Emergency devices**												
11.7.1	Emergency pump does not operate.		1	2	1	3	6	LOW		Ensure that operators are trained in the correct use of the emergency retrieval system.	Yes	MGMT/OP	
										Ensure that the emergency pump is checked on a periodic basis in accordance with the manufacturer's instructions.	Yes	MGMT/OP	
										Ensure that MEWP is stood down from service if the emergency system is not working properly.	Yes	MGMT/OP	

RISK ASSESSMENT: SKYJACK SJ85AJ										PRELIMINARY (Refer to "Notes" section)			
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11.7.5	Hazards arising as a result of incorrect emergency retrieval procedures.	Emergency retrieval procedures are detailed in the operator's manual [p. 65]. Decal fitted adjacent to the emergency controls explaining the operation [172495ABZZ].	1	2	1	3	6	LOW	Ensure operators are trained in emergency retrieval and operation.	Yes	MGMT/OP	
									Ensure that refresher training is undertaken by operators on a regular basis.	Yes	MGMT/OP	
									Ensure that ground personnel are present who are trained in the emergency lowering procedures.	Yes	MGMT/OP	
11.8	**Feeding/removal means of work pieces**							NS				
11.9	**Essential equipment and accessories for safe adjusting and/or maintaining**											
11.9.1	Persons injured whilst performing maintenance.	Maintenance procedures provided by manufacturer detailing all critical maintenance requirements. Detailed instructions provided in maintenance manual which covers all anticipated repairs and maintenance items.	1	2	1	3	6	LOW	Ensure personnel are trained in correct repair procedures.	Yes	MGMT	
									Ensure that the MEWP is tested by a competent person prior to being returned to normal service after repairs and/or adjustment of critical components or systems.	Yes	MGMT	
									Ensure that all appropriate equipment is supplied and used when performing maintenance.	Yes	MGMT	
11.9.2	Personnel crushed working under the elevated structure	Warning label fitted [139314] 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. Warning in maintenance manual to ensure personnel are clear from under unsupported components/systems that are at risk of movement during maintenance. Warning in maintenance manual [p. 14] to use devices to support weight of components to be lifted.	1	2	1	3	6	LOW	Ensure maintenance personnel always use the platform support when performing maintenance.	Yes	MGMT/OP	
									Ensure that personnel do not enter the area under the platform if it is not adequately supported.	Yes	MGMT/OP	
11.9.3	Persons injured whilst handling heavy or unsupported items.		1	2	1	3	6	LOW	Provide necessary equipment to handle heavy items.	Yes	MGMT	
									Instruct persons undertaking tyre change to follow established SWP's in accordance with recognised industry practice.	Yes	MGMT	
11.9.4	Strains/sprains when removing components or performing certain maintenance aspects of the MEWP.	Standard SWP's apply.	1	2	1	3	6	LOW	Establish appropriate work procedures for all anticipated maintenance issues arising.	Yes	MGMT	
									Periodically review these safe work procedures (SWP's).	Yes	MGMT	
11.9.5	Personnel fall whilst performing maintenance checks.	Standard SWPs aply Pre-operational checks able to be performed at ground level.	1	2	1	3	6	LOW	Ensure that appropriate equipment is used during maintenance where access at height is required.	Yes	MGMT	
									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.	Exhaust system protected by engine covers.	1	2	1	3	6	LOW	Ensure that exhaust system is maintained in accordance with manufacturer's instructions.	Yes	MGMT/OP	
12	**Inadequate lighting of moving/working area**											
12.1	**Collision with structures or objects due to inadequate 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	MEDIUM	Ensure lighting in job area is assessed by trained personnel prior to undertaking further machine operation.	Yes	MGMT/OP	
									Monitor lighting levels throughout the operation of the MEWP, as lighting is prone to change relative to time of day.	Yes	MGMT/OP	
									Fit work lights if anticipating work at night or poorly lit areas.	Yes	MGMT	
13	**Hazards due to sudden movement/instability during handling**											
13.1	**General Manouvering**											
13.1.1	While personnel are moving MEWP around job site.	Maximum travel speeds are fixed. Ramp speed provided which is slower than travel speed. Travel speeds given in operator's manual [Section 7].	3	2	1	3	6	MEDIUM	Ensure that MEWP is not driven on excessive slopes or rough terrain at speed.	Yes	OP	
									Ensure that operators travel at speeds commensurate with the conditions.	Yes	OP	
13.2	**Lifting/Loading/Towing**											

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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).	3	2	1	3	6	MEDIUM				
13.2.2	When loading/unloading MEWP from trucks.	Instructions and precautions included in operator's manual for loading and unloading [section 6.5].	4	2	2	3	7	HIGH	Ensure that operators are aware of the precautions and operational requirements specified in the manual.	Yes	MGMT	
									Ensure persons abide by the instructions.	Yes	OP	
									Ensure that only trained personnel are permitted to load the machine onto trucks.	Yes	MGMT/OP	
13.2.3	When lifting MEWP from transportation.	Instructions are provided in the operator's manual [section 6.5] for lifting the MEWP, which includes warnings regarding the proper selection of lifting hardware and use of the correct lifting points. Lift points fitted and identified on the MEWP [124767]. The unladen mass of the MEWP is listed on the data plate [172655AA] fitted to the MEWP.	3	2	2	3	7	MEDIUM	Ensure that only trained personnel are permitted to lift the MEWP.	Yes	MGMT/OP	
									Ensure that the proper lifting points are used.	Yes	MGMT/OP	
									Ensure that suitably rated chains & slings are used.	Yes	MGMT/OP	
13.2.4	Operator ejected from platform whilst loading onto trucks.	PPE list includes the fall restraint equipment required to be worn by personnel loading and unloading the MEWP. Instructions and precautions included in operator's manual for loading and unloading [section 6.5].	3	2	2	3	7	MEDIUM	Ensure that only suitably trained personnel are permitted to load MEWPs onto trucks.	Yes	MGMT/OP	
									Ensure that personnel wear the correct fall restraint harness whilst loading the MEWP onto trucks.	Yes	MGMT/OP	
13.2.5	Injury from unsecured vehicle whilst transporting.	Instructions in operator's manual [section 3.10] regarding transporting MEWP as required by AS1418.10 – 2011 clause 4.1.3 (a). Tie-down points fitted to MEWP and identified with decals [124767].	3	2	2	3	7	MEDIUM	Ensure that the instructions provided in the operator's manual are followed.	Yes	MGMT/OP	
									Ensure the MEWP is properly secured when transporting on vehicles.	Yes	MGMT/OP	
13.2.6	Injury due to tray or float of inadequate size.	Standard machine specifications included in the operators manual [Section 7]. Warning provided in operator's manual [pp. 70, 71] regarding checking that the truck is capable of accommodating the MEWP.	1	2	1	3	6	LOW	Ensure that the vehicle is of adequate size to carry the MEWP.	Yes	MGMT/OP	
13.2.7	Personnel activate free-wheeling mode which causes MEWP to roll.	Decal fitted [223638] which explains procedure for releasing the brakes and includes warnings. Instructions provided in operator's manual [p. 68] for brake release which includes all safety precautions.	1	2	1	3	6	LOW	Ensure that operators are trained to perform brake release.	Yes	MGMT/OP	
									Ensure operators follow the instructions provided in the manual.	Yes	MGMT/OP	
14	**Inadequate/non-ergonomic design of driving/operating position**											
14.1	**Hazards due to dangerous environments (contact with moving parts exhaust gases, etc.)**											
14.1.1	Operator is exposed to contact with exhaust gases.	Exhaust gases are directed away from the operator in the normal operating positions.	1	2	1	3	6	LOW	Ensure that exhaust system is maintained in accordance with manufacturer's instructions.	Yes	MGMT	
14.2	**Inadequate visibility from driver's/operator's position**											
14.2.1	Personnel injured due to operator having limited visibility from operating position.	Operator's position in platform generally offers a good position to see all parts of the MEWP structure.	3	2	1	3	6	MEDIUM	Ensure operators survey the area within which they are to be working in order to familiarise themselves with possible obstructions.	Yes	OP	
									Ensure a spotter is used if required.	Yes	MGMT/OP	
14.2.2	Due to collision with obstructions because operator in the platform cannot 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. Warning in operators manual [p. 19] to use a spotter if the operator cannot see all hazards or hazards exist which may be encountered by the operator when using the MEWP.	3	2	1	3	6	MEDIUM	Ensure operators are trained with respect to this hazard.	Yes	MGMT/OP	
									Ensure the MEWP is operated at reduced speeds when clearance between the platform and other objects is reduced.	Yes	MGMT	
									Ensure a spotter is used if required.	Yes	OP	
14.3	**Inadequate seat/seating (seat index point)**							NS				
14.4	**Inadequate/non-ergonomic design/positioning of controls**											

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14.4.1	Operator suffers fatigue as a result of the position of the controls.	Controls positioned so that a comfortable stance can be achieved.	1	2	1	3	6	LOW	Implement a system to ensure that operators do not work excessive or continuous shifts and manage peak demands.	Yes	MGMT	
									Ensure that operators do not continue use of the MEWP if they feel tired or are suffering from fatique.	Yes	MGMT/OP	
14.4.2	The position of the platform controls causes the operator to adopt an unhealthy posture.	Controls placed in an ergonomic location allowing ease of use by operator.	1	2	1	3	6	LOW	If the position of the controls causes discomfort to the operator ensure that they are moved to an appropriate position.	Yes	MGMT	
									Limit the length of shifts to a reasonable time.	Yes	MGMT/OP	
14.4.4	Excessive effort required to activate control functions.	Effort required to activate controls is reasonable.	1	2	1	3	6	LOW	Maintain Controls to ensure that undue force is not required to activate control functions.	Yes	MGMT	
									Limit the length of shifts to a reasonable time.	Yes	MGMT/OP	
14.5	Starting/moving of self-propelled machinery							NS				
14.6	Road traffic of self-propelled machinery											
14.6.1	MEWP collision with vehicular traffic on job site.	An audible alarm sounds whenever the MEWP is in motion.	4	1	1	3	5	HIGH	Implement a traffic management system.	Yes	MGMT/OP	
									Ensure that the rotating/strobe light is used whenever the machine is in motion.	Yes	OP	
									Ensure a traffic management system is enforced, should the MEWP be exposed to vehicular traffic.	Yes	MGMT/OP	
14.7	Movement of pedestrian-controlled machinery							NS				
15	Mechanical hazards (due to failure of systems or devices)											
15.1	Hazards to exposed persons due to uncontrolled movement											
15.1.1	Failure of cylinder or hose resulting in uncontrolled movement of the work platform and extending structure.	Cylinders have been assessed in accordance with AS1418.10 – 2011 clause 2.9.1.2.1.	2	2	1	3	6	LOW	Ensure cylinders are inspected in accordance with procedures outlined in manual.	Yes	MGMT/OP	
		Cylinders are fitted with load holding check valves to prevent movement in case of hose failure.							If any defects are detected ensure that the MEWP is withdrawn from service until the defects are rectified.	Yes	OP	
		Hydraulic filters fitted.										
		Maintenance manual provided which includes service requirements for hydraulic system.										
15.1.2	Operator crushed as a result of uncontrolled motion while on a slope due to brake failure.	Brakes fitted to four wheels, which exceeds the requirements of AS1418.10 – 2011 clause 2.2.12.	4	2	2	3	7	HIGH	Ensure travel speed is reduced when travelling on gradients.	Yes	OP	
		Brakes designed and tested to achieve the stopping distances in accordance with AS1418.10 – 2011 clause 2.2.16.										
		Theoretical gradeability limits in the operator's manual [Section 7].										
		Theoretical gradeability limits listed on the serial plate [172655AA].										
15.2	Hazards due to break-up and/or ejection of parts											
15.2.1	MEWP could collapse or break up as a result of poor design or manufacture.	Designed & manufactured to comply with the requirements of the design standards and directives in the country where the unit is sold.	1	2	1	3	6	LOW	Ensure that the unit is registered with manufacturer.	Yes	MGMT	
		MEWP is load tested as part of pre-delivery checks by manufacturer before delivery to customer.							Periodically check for the existence of routine safety alerts that may be issued by the manufacturer or the representative.	Yes	MGMT	
		Warning in manual not to operate an aerial platform that is malfunctioning or damaged [p. 18].							Routinely inspect the MEWP by a competent organisation external to operator.	Yes	MGMT	
		Pre-operational inspection requirements detailed in operator's manual which includes checks of structural members [section 4].							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	
									Ensure preoperational inspections are conducted as per the manufacturers instructions.	Yes	MGMT/OP	
15.2.2	Due to failure to observe or rectify safety upgrades from manufacturer.	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	
		Instructions included in operators manual [p. 9] regarding transfer of ownership procedures.							Periodically check the status in respect of safety bulletins or upgrades applying to the MEWP.	Yes	MGMT	

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		Service bulletins are clearly accessible from the manufacturers website. Manual portal includes service bulletins. Serial number search in the portal returns all relevant service bulletins. Maintenance schedule requires a check of all service bulletins when performing 3 and 12 monthly inspections.						HIGH	Ensure that safety upgrades provided by the manufacturer are implemented. Ensure the manufacturer is advised when the MEWP is disposed of or sold.	Yes Yes	MGMT MGMT	
15.2.4	Structural collapse due to loss of pivot pin(s)	Pre-operational inspections list inspection of pivot pins.	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 – ROP)**							NS				
15.4	**Hazard due to falling objects (falling object protection – FOP)**											
15.4.1	Ground crew or passer-by being struck by falling tools or objects.	Kick panel provided on platform in accordance with AS1418.10 – 2011 clause 2.5.4. See AS2550.10 – 2006 clause[s] 5.10 & 5.16.	3	2	1	3	6	MEDIUM	Barricade area from public access.	Yes	OP	
									Ensure that materials are not supported on the guardrails or exceed the confines of the platform.	Yes	OP	
									Remove all loose tools and objects from the platform before driving.	Yes	OP	
									Consider the fitment of the half mesh infill kit on the platform.	Yes	MGMT	
15.5	**Inadequate means of access**							NS				
15.6	**Hazards caused due to towing, coupling, connecting, and transmission**											
15.6.3	Injury sustained whilst towing.	Towing/winching points are fitted and identified [124767] on the MEWP. Instructions are included in the operator's manual regarding the correct procedures for towing and/or winching the MEWP including residual risks that may exist [p. 68].	2	2	1	3	6	LOW	Ensure that the instructions provided in the operator's manual are followed.	Yes	MGMT/OP	
									Ensure that only trained personnel are permitted to tow the MEWP.	Yes	MGMT/OP	
									Ensure MEWP is parked on flat level ground before releasing brakes.	Yes	MGMT/OP	
									Ensure that personnel do not release the brakes unless the MEWP is properly chocked in accordance with the instructions provided in the operator's manual.	Yes	MGMT/OP	
15.7	**Hazards due to batteries, fire, emissions, etc.**											
15.7.1	Hazards from batteries and associated faults.	Batteries are well ventilated in accordance with AS1418.10 – 2011 clause 2.2.21. Battery isolation switch fitted.	2	2	2	3	7	LOW	Ensure the battery isolation switch is used whenever battery maintenance is performed.	Yes	MGMT/OP	
									Ensure that the appropriate PPE is worn when working on or near the batteries.	Yes	MGMT/OP	
									Ensure safe work procedures are established in regards to working with batteries.	Yes	MGMT/OP	
									Ensure operators follow established safe work procedures.	Yes	MGMT/OP	
									Ensure that only trained personnel conduct maintenance on or near batteries.	Yes	MGMT/OP	
									Ensure that personnel who are trained in first aid are readily available to render assistance if required.	Yes	MGMT/OP	
16	**Hazards due to lifting operation**											
16.1	**Lack of stability**											
16.1.1	Hazard number not used.	See 19.2, 23										
16.2	**Derailment of machinery**							NS				
16.3	**Loss of mechanical strength of machinery and lifting accessories**											
16.3.1	Failure of lifting points.	Lift points are designed for loads as anticipated during normal lifting for the life of the MEWP. Instructions are provided in the operator's manual [section 6.5] for lifting the MEWP, which includes warnings regarding the proper selection of lifting hardware and use of the correct lifting points.	3	2	1	3	6	MEDIUM	Ensure that lift points are inspected as per the criteria detailed in the maintenance manuals.	Yes	MGMT/OP	
									Ensure instructions are followed as per the instructions provided in the operator's manual for lifting.	Yes	MGMT/OP	

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		Lift points fitted and identified on the MEWP [124767].										
16.4	**Uncontrolled movements**							NS				
17	**Inadequate view of trajectories of the moving parts**											
	Hazard number not used.	See 14.2.	4	3	2	3	8	HIGH				
18	**Hazards caused by lightning**											
18.1	Persons could be injured if the unit is operated during storms.	Warning in operator's manual [p. 15] that MEWP is not to be operated during storms.	4	1	1	3	5	HIGH	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	
19	**Hazards due to loading/overloading**											
19.1	**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 operator's manual [p. 18] not to overload the work platform. The maximum rated capacity is listed in the operator's manual [p. 81]. The maximum rated capacity is displayed on the manufacturers ID plate [172655AA]. The maximum rated capacities displayed on the platform [172280ABZZ].	3	3	1	3	7	MEDIUM	Ensure preoperational checks are performed in accordance with those outlined in operators manual.	Yes	MGMT/OP	
									Ensure that any faults are reported directly to management and machine is withdrawn from service.	Yes	MGMT/OP	
									Verify that the expected loads do not exceed the rated capacity.	Yes	MGMT/OP	
19.1.2	Maximum manual force is exceeded.	Maximum manual force specified in the operator's manual [p. 81]. Maximum permitted manual force displayed on platform [172280ABZZ]. Warning in operator's manual [p. 17] not to exert side forces on MEWP while it is elevated. Maximum permitted manual force included on ID plate [172655AA]. Decal fitted to platform [172280ABZZ] includes maximum manual force.	4	1	1	3	5	HIGH	Ensure that operators do not exert lateral force greater than that specified.	Yes	OP	
									Ensure that operators do not push or pull objects with platform.	Yes	OP	
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. Additional advice in AS2550.10 – 2006 clause 4.10. Warning in the operators manual [p. 16] states MEWP is not to be operated in wind speeds which exceed limits. Warning in operator's manual [p. 16] not to increase the surface area that can catch the wind. ID plate [172655AA] includes maximum wind speed rating. Decal fitted to platform [172280ABZZ] includes maximum wind speed rating.	4	1	1	3	5	HIGH	Train operators of the dangers of carrying or fitting bluff bodies to the platform.	Yes	MGMT	
									Ensure that the EWP is not operated in high winds above the rated speed.	Yes	MGMT/OP	
									Monitor wind forecasts on a regular basis.	Yes	OP	
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. Standard machine specifications included in the operators manual [Section 7]. detail the load combinations which are acceptable. MEWP is fitted with a load sensing system.which limits the magnitude of the vertical load. The maximum rated capacities displayed on the platform [172280ABZZ].	3	1	1	3	5	MEDIUM	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	
									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 MEWP.	Yes	MGMT/OP	
									Verify expected loading and confirm it is less than rated capacity.	Yes	MGMT/OP	
									Verify operating slopes are less than the maximum permitted chassis inclination of the MEWP.	Yes	MGMT/OP	

RISK ASSESSMENT: SKYJACK SJ85AJ										PRELIMINARY (Refer to "Notes" section)			
A	B	C				D1	D2	D		E	F	G	H
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 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
		Decal fitted to platform [172280ABZZ] includes maximum wind speed rating. Maximum permitted manual force displayed on platform [172280ABZZ].								Verify wind conditions experienced in service are less than the maximum wind speed rating of the MEWP.	Yes	MGMT/OP	
										Ensure the machine is isolated to prevent unauthorised use at the end of each work shift.	Yes	MGMT/OP	
19.1.6	Due to operator in platform lifting loads with ropes.	Warning in operator's manual [p. 17] not to use MEWP as a lifting tool or crane.	4	2	1	3	6	HIGH		Ensure operators do not cause platform overload by lifting additional equipment from elevated platform using ropes.	Yes	MGMT/OP	
19.2	**Overturning/loss of stability**												
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	3	6	LOW					
19.2.2	Maximum manual force is exceeded.	See 19.1.2	1	2	1	3	6	LOW					
19.2.3	Excessive wind speed or wind load.	See also 19.1.3	1	2	1	3	6	LOW					
19.2.4	Overturning on excessive slope	Interlock fitted which prevents elevated travel and elevation from the travel position if the slope exceeds the manufacturer's limits. Warning in the operators manual [p. 17] not to exceed the slope limits of the MEWP. Warning in the operators manual [p. 17] not to drive elevated on a slope.	1	2	1	3	6	LOW		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	
19.2.5	Overturning due to exceeding the maximum permitted number of operators in the work platform.	Specifications in operator's manual [p. 81] detail the maximum platform capacities which include the maximum number of operator's permitted in the work platform for both indoor and outdoor use. Decal [172280ABZZ] listing the platform capacity limitations for both indoor and outdoor use fitted in work platform.	1	2	1	3	6	LOW		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	
										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	**Mechanical strength**												
20.1.1	Mechanical strength of extending structure is insufficient to support platform loads.	Mechanical strength has been assessed in accordance with AS1418.10 – 2011. Load holding valves fitted to all load bearing hydraulic cylinders in accordance with AS1418.10 – 2011 clause 2.9.2. Structure designed and assessed against the requirements of AS1418.10 – 2011 clause 2.1. Platform load sensing system fitted in accordance with AS1418.10 – 2011 clause 2.3.1.2. Pre-operation inspection criteria included in the operator's manual [section 4].	1	2	1	3	6	LOW		Verify expected loading and confirm it is less than Rated Capacity.	Yes	MGMT/OP	
										Audit the rated capacity of the anticipated load on a regular basis.	Yes	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. The load cases used for the structural analysis includes the dynamic load case. Function speeds are listed in the operator's manual [p. 79].	1	2	1	3	6	LOW		Ensure that the system function speeds are set and maintained to the specifications listed in the manual.	Yes	MGMT	
20.1.4	Injury from using the MEWP in an unsuitable condition due to poor maintenance or inspections.	Maintenance instructions provided which includes maintenance instructions for all anticipated maintenance requirements over the life of the MEWP. Pre-operational checks include loose or missing fasteners [p. 22]. Pre-start inspection procedures specified in operator's manual [section 4] to cover all normal maintenance requirements of MEWP.	4	3	2	3	8			Ensure that pre-start inspections are completed prior to use of MEWP.	Yes	MGMT/OP	
										Ensure that MEWP is not used if any defects are found.	Yes	MGMT/OP	
										Ensure that any damage or accidents that involve the MEWP are reported to the relevant manager/authorities.	Yes	MGMT/OP	

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A	B	C				D1	D2	D	E	F	G	H
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		Operator maintenance instructions included in the manual [Section 4].						HIGH	Modify maintenance program according to use and the operating environment.	Yes	MGMT/OP	
									Ensure that the unit is checked, repaired and maintained by appropriately trained/qualified and experienced personnel in accordance with the checklists contained in the operation manual.	Yes	MGMT/OP	
									Ensure all inspections, servicing, replacement of parts and modifications are entered into logbook.	Yes	OP	
									Use equivalent replacement parts and log replacement.	Yes	MGMT	
									Instruct the operator/competent person to report all faults to management.	Yes	MGMT/OP	
									Ensure logbook provided on MEWP to record usage and faults.	Yes	MGMT	
20.1.5	Persons could be injured as a result of structural fatigue failure – Road Transport.	Pre-operational inspection includes checks of the structure for cracks. Instructions and precautions included in operator's manual for loading and unloading [section 6.5]. Tie-down points fitted to MEWP and identified with decals [124767].	4	2	1	3	6	HIGH	Ensure the operators are instructed to properly stow unit prior to transportation.	Yes	MGMT/OP	
									Ensure the elevating structure & platform is restrained during transportation.	Yes	MGMT/OP	
20.1.6	Failure due to corrosion resulting from ingress of moisture and debris into the extending structure.		4	2	1	3	6	HIGH	Regularly inspect the interior of the MEWP elevating structure.	Yes	MGMT/OP	
									Clean the unit of all debris on a regular basis.	Yes	MGMT/OP	
									Reinstate all damaged covers.	Yes	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	3	6	LOW	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. The maximum rated capacity is listed in the operator's manual [p. 81]. Danger note nole in operator's manual [p. 18] not to exceed the rated capacity of the MEWP. Rated capacity is displayed in the ID plate. [172655AA]. The maximum rated capacities displayed on the platform [172280ABZZ]. Warning label fitted [198131] which includes warning not to overload platform.	3	3	3	1	7	MEDIUM	Ensure preoperational checks are performed in accordance with those outlined in operators manual.	Yes	MGMT/OP	
									Ensure that any faults are reported directly to management and machine is withdrawn from service.	Yes	MGMT/OP	
									Ensure calibration checks are performed in accordance with the service manual.	Yes	MGMT/OP	
									Ensure MEWP is not overloaded during operation.	Yes	MGMT/OP	
21	**Controls**											
21.1	**Movement of Work Platform**											
21.1.1	Due to accidental impact or engagement – unintentional activation of controls.	Controls comply with AS1418.10 – 2011 clause 2.6. 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. Upper & Lower controls require two deliberate and simultaneous actions by the operator before they function. 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. Function enable has a 10 sec timeout. Function enable must be engaged prior to any elevating structure movement control to effect motion, Symbols used for marking comply with ISO20381.	4	4	2	3	9	HIGH	Ensure operators are familiar with the control layout and function.	Yes	MGMT/OP	
									Ensure control switches automatically return to neutral when released.	Yes	OP	
									Ensure that all incidents in relation to the machine are reported and acted on.	Yes	MGMT/OP	

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A	B	C				D1	D2	D	E	F	G	H
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21.1.2	Hydraulic control failure	Hydraulic filters fitted.	1	2	1	3	6	LOW	Ensure that hydraulic system is maintained as per manufacturer's instructions.	Yes	MGMT/OP	
21.1.3	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	LOW	Ensure operators are familiar with the emergency lowering procedures prior to operating the MEWP.	Yes	MGMT/OP	
21.2	**Safe travel control**											
21.2.1	Excessive travel speed leads to machine instability.	MEWP travel speed is automatically reduced when the platform is elevated out of the transport position. Maximum travel speeds are fixed. Travel speeds given in operator's manual [Section 7]. Elevated drive speed check is listed in preoperational checks [p. 56].	1	2	1	3	6	LOW	Ensure that maximum travel speeds are maintained in accordance with manufacturer's specifications.	Yes	MGMT/OP	
									Ensure MEWP travel speed is automatically reduced when the platform is elevated out of the transport position.	Yes	MGMT/OP	
21.2.2	Operator ejected whilst travelling over kerbs or depressions	Dynamic stability tests conducted in accordance with AS1418.10-2011 clause 3.6.3.2.	1	2	1	3	6	LOW	Ensure operators are aware of this hazard.	Yes	MGMT/OP	
21.3	**Safe speed control**											
21.3.1	Injury due to excessive platform movement speeds.	Extending structure speeds comply with AS1418.10 – 2011 clause 2.3.6. Maximum system speeds are fixed and cannot be altered by the operator. Function speeds are listed in the operator's manual [p. 79].	3	2	1	3	6	MEDIUM	Ensure that machine is maintained in accordance with manufacturer's instructions and all settings are maintained.	Yes	MGMT/OP	
22	**Falling of persons**											
22.1	**Personal protective equipment**											
22.1.1	Operator falls from elevated platform.	Guardrail system designed in accordance with AS1418.10 – 2011 clause 2.5.4. Fall arrest anchorage points provided. Fall arrest test has been performed in accordance with AS1418.10-2011 Instructions for use of fall arrest/restraint harness and lanyard provided in operator's manual [p. 44]. Labels fitted [172639AAZZ] which identifies harness anchorage points.	3	2	2	3	7	MEDIUM	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	
									Ensure harness and lanyards are in good condition.	Yes	MGMT/OP	
									Audit use of fall restraint/arrest devices.	Yes	MGMT/OP	
									Ensure that platform guard rails are properly fitted and not damaged.	Yes	OP	
22.1.2	Falling from guardrails, ladders or stools located in the work platform.	Warning in the operator's manual [p. 17] that ladders and/or stools are not permitted to be used in the work platform. Requirements per AS2550.10. Warning in operator's manual [p. 17] not to sit, stand or climb on guard rails.	4	2	2	3	7	HIGH	Ensure that operators do not use any means to gain additional height.	Yes	MGMT/OP	
									Ensure that operators do not use any means to gain additional height. Ensure the correct MEWP in terms of rated capacity, height and reach is used for the particular task at hand.	Yes	MGMT/OP	
22.1.4	Operator falls through the platform access opening.	Platform gate designed in accordance with AS1418.10 – 2011 clause 2.5.6 and is self-closing and latches in the closed position. Gate opens inwards. Warning in operators manual [p. 18] to close the gate after entry.	4	2	1	3	6	HIGH	Ensure that personnel do not exit the platform except at ground level.	Yes	MGMT/OP	
									Audit use.	Yes	MGMT	
									Ensure gate is maintained in accordance with manufacturers instructions.	Yes	MGMT/OP	
									Ensure MEWP is not used if gate is faulty.	Yes	MGMT/OP	
22.1.5	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	HIGH	Ensure that operator egress at heights is prohibited unless in an emergency and there is a safe means to do so.	Yes	MGMT/OP	
									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.	Yes	MGMT/OP	

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									Refer to requirements per AS2550.10, see clause 5.9 and figure 5.9[B].	Yes	MGMT/OP	
22.1.7	Operator ejected from the platform due to failure of the levelling system.	Safety Harness anchorages provided which are tested and labelled as per AS1418.10 – 2011 clauses 2.5.5 & 4.2.2(j).	3	2	1	3	6	MEDIUM	Ensure harness and lanyards are in good condition.	Yes	MGMT/OP	
		Pre-operational inspection includes checks of structural components and cylinders.							Audit use of fall restraint/arrest devices.	Yes	MGMT	
									Ensure that pre-operational inspections are conducted as per the manufacturer's instructions.	Yes	MGMT/OP	
22.2	**Trapdoors**							NS				
22.3	**Work platform tilt control**											
22.3.1	Operator falls from platform as a result of activation of platform tilt control.	Platform level controls only provided at platform.	1	2	1	3	6	LOW	Ensure adjustment of the platform level is only performed when it is at ground level.	Yes	MGMT/OP	
		The rotational speed of the work platform level adjustment does not exceed 0.3 rad/s as per AS1418.10 – 2011 clause 2.5.2.							Ensure that the ground operator only adjusts the platform level in an emergency.	Yes	MGMT/OP	
		Warning sign fitted at the ground controls that they are only to be used in an emergency.										
23	**Work platform falling/overturning**											
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.	4	2	1	3	6	HIGH	Ensure that the MEWP is operated within the rated slope limitations specified.	Yes	OP	
		Chassis inclination alarms fitted to each axle to warn if the permissible slopes are exceeded.										
		Warning in manual regarding overturning hazards [p. 16].										
		The chassis inclination limits are listed on the data plate [172655AA].										
		Warning in operator's manual [p. 16] not to operate on excessive slope.										
		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. 16] that MEWP is to be operated on firm level surfaces.	4	2	1	3	6	HIGH	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.	Yes	MGMT/OP	
		Label [173192] fitted stating not to drive on uneven 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 operator's manual [p. 16] that MEWP is to be operated on firm level surfaces.	4	2	1	3	6	HIGH	Ensure the MEWP is not operated on planks.	Yes	OP	
23.1.4	Overturning due to collapse of support surface.	Additional notes in AS2550.10.	4	2	1	3	6	HIGH	Ensure the unit is not set up on rough, soft or otherwise hazardous surfaces.	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.	Yes	MGMT/OP	
		Warning in operator's manual [p. 16] do not drive elevated on a soft or uneven surface.							Ensure that thorough site checks are performed prior to operation.	Yes	OP	
		Maximum wheel load listed in the operator's manual [p. 81].							Document procedures.	Yes	MGMT/OP	
		Maximum wheel loads displayed on MEWP next to wheels [172562AAZZ].										
23.1.5	MEWP overturns while manoeuvring around job site.	The lowered travel position is limited by the control system.	4	2	1	3	6	HIGH	Ensure the work platform is not raised while travelling at speeds above the permitted elevated drive speed.	Yes	OP	
		The gradeability is listed on the ID plate [part number 172655AA] fitted to the MEWP.							Ensure the gradeability limits are not exceeded whilst travelling.	Yes	OP	
		Warning in operator's manual [p. 17] not to drive on slopes which exceed the maximum gradeability.							Ensure that operators, observe the surroundings and move at appropriate speeds.	Yes	OP	

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A	B	C				D1	D2	D	E	F	G	H
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		Warning in operator's manual [p. 16] not to drive elevated near depressions, or holes, loading docks, debris, drop-offs or surfaces that may affect stability.										
23.1.6	Overturning due to operation on a truck or similar device.	Warning in the operator's manual [p. 17] not to operate MEWP while parked on the back of a truck or similar.	4	2	1	3	6	HIGH	Ensure that the MEWP is not operated whilst on a truck or similar.	Yes	MGMT/OP	
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	3	6	HIGH	Ensure that operators wear the correct harness and lanyard.	Yes	MGMT/OP	
									Ensure that the operators attach the lanyard to the correct attachment points when they are in the platform.	Yes	OP	
									Ensure that the number of operators attached to a single point does not exceed the maximum number permitted.	Yes	OP	
23.2	Acceleration/braking							NS				
24	Markings											
24.10	Personnel injured due to missing or illegible safety signs.	A list and description of all labels fitted to the MEWP is included in the operator's manual [section 8].	3	2	1	3	6	MEDIUM	Train operators in relation to the meaning of the markers.	Yes	MGMT/OP	
		Warning in the operator's manual [p. 21] that all safety labels are to be in place prior to use of MEWP. Pre-operational checks [p. 38] include a check of all the safety decals.							Ensure that pre-operational check of safety decals is performed before use.	Yes	OP	
24.20	Unclear instructions on safety signs.	All instructions are given in English.	1	2	1	3	6	LOW	Ensure that operators are familiar with the meaning of all safety signs and warnings.	Yes	MGMT/OP	
		All numerical values are given in SI units. Symbols used for marking comply with ISO20381.										