

# HAZARD EVALUATION

**FOR KERRICK SUMNER MATERIAL LIFTS – SERIES 2300**

**MODELS 2311 2315**

QUESTION? CAN A PERSON BE INJURED?	HAZARD Y OR N?	What is the Hazard?	HAZARD RATING No	If Rating No. is 15 or less What is the CONTROL?
<b>A. ENTANGLEMENT</b>				
1. Can anyone's hair, clothing, gloves, necktie, Jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?				
	Y	Winch & Cable	23	Operator Work place safety
<b>B. CRUSHING</b>				
1. Can anyone be crushed due to				
a. Material falling off the plant?	Y	Unsafe load	17	Check load Observe warning labels Work place safety
b. Uncontrolled or unexpected moving of the plant or its load?	Y	Unsuitable surface	17	Check surface Observe warning labels Work place safety
c. Lack of capacity for the plant to be slowed, stopped or immobilized?	N			
d. The plant tipping or rolling over?	Y	Overloaded Unsuitable surface	17	Observe warning labels Observe instructions Work place safety
e. Part of the plant collapsing?	Y	Overloaded	17	Observe warning labels Observe instructions Work place safety
f. Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	Y	Standing under load No bystanders	17	Observe warning labels Work place safety
g. Being thrown off or under the plant?	N			
h. Being trapped between the plant and material or fixed structures?	Y	Standing under load No bystanders	17	Observe warning labels Work place safety
i. Other factors not mentioned? <i>(Spectators must be kept away)</i>	Y	Standing under load No bystanders	17	Work place safety Observe warning labels
<b>C. CUTTING, STABBING OR PUNCTURING?</b>				
1. Can anyone be cut, stabbed or punctured due to				
a. Coming in contact with sharp or flying objects?	N			
b. Coming in contact with moving parts of the plant during testing, inspection, operations, maintenance, cleaning or repair of the plant?	N			
c. The plant, parts of the plant or work pieces disintegrating?	N			
d. Work pieces being ejected?	N			
e. The mobility of the plant?	N			
f. Uncontrolled or unexpected movement of the plant?	N			
g. Other factors not mentioned? <i>(Spectators must be kept away)</i>	N			
<b>D. SHEARING</b>				
1. Can anyone's body parts be sheared between tow parts of the plant, or material handled by the plant?				
<b>E. FRICTION</b>				
1. Can anyone be burnt due to contact with moving parts or surfaces of the plant, or between a part of the plant and a work piece or structure?				
<b>F. STRIKING</b>				
1. Can anyone be struck by moving objects due to				
a. Uncontrolled or unexpected movement of the plant?	Y	Unstable load, Uneven surface	20	Work place safety
b. The plant, parts of the plant or work pieces disintegrating?	N			
c. Work pieces being ejected?	N			
d. The mobility of the plant?	Y	Uneven surface	21	Work place safety

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<b>G. HIGH PRESSURE SUBSTANCES</b>				
1. Can anyone come into contact with substances under high pressure, due to plant failure or misuse of the plant?				
<b>H. ELECTRICAL</b>				
1. Can anyone be injured by electrical shock or burnt due to				
a. The plant contacting live electrical conductors?	Y	Electrocution	15	Work place safety Observe warning labels
b. The plant working in close proximity to electrical conductors?	Y	Electrocution	15	Work place safety Observe warning labels
c. Overload of electrical circuits?	N			
d. Damaged or poorly maintained electrical leads and cables?	N			
e. Damaged electrical switches?	N			
f. Water near electrical equipment?	N			
g. Lack of isolation procedures?	Y	Electrocution	15	Work place safety Observe warning labels
h. Other factors not mentioned?	Y	Unknown		Work place safety
<b>I. EXPLOSION</b>				
1. Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?				
<b>J. SLIPPING, TRIPPING &amp; FALLING</b>				
1. Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to				
a. Uneven or Slippery work surfaces?	Y	Fall	21	Work place safety
b. Poor housekeeping, eg swarf in the vicinity or the plant spillage not cleaned up?	Y	Fall	21	Work place safety
c. Obstacles being placed in the vicinity of the plant, other factors not being mentioned?	Y	Load fall	21	Work place safety
2. Can anyone fall from a height due to				
a. Lack of proper work platform?	N			
b. Lack of proper stairs or ladders?	N			
c. Lack of guardrails or other suitable edge protection?	N			
d. Unprotected holes, penetrations or gaps?	N			
e. Poor floor or walking surfaces, such as the lack of slip resistant surface?	N			
f. Steep walking surfaces?	N			
g. Collapse of supporting structure?	N			
h. Other factors not mentioned?	N			
<b>K. ERGONOMIC</b>				
1. Can anyone be injured due to				
a. Poorly designed seating?	N			
b. Repetitive body movement?	N			
c. Constrained body posture or the need for excessive effort?	N			
d. Inadequate or poorly placed lighting?	N			
e. Lack of consideration given to human error or human behaviour?	Y	Unknown		Work place safety
f. Mismatch of the plan with human traits and natural limitations?	Y	Unknown		Work place safety
g. Other factors not mentioned?	Y	Unknown		Work place safety
<b>L. SUFFOCATION</b>				
1. Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?				
<b>M. HIGH TEMPERATURE OR FIRE</b>				
1. Can anyone come in contact with objects at high temperature?				
<b>N. OTHER HAZARDS</b>				
1. Can anyone be injured or suffer ill health from exposure to				
a. Chemicals:	N			
b. Toxic gases or vapours?	N			
c. Fumes?	N			
d. Dust?	N			
e. Noise?	N			
f. Vibration?	N			
g. Radiation	N			
h. Other factors not mentioned?	N			

# CALCULATION FOR RISK ASSESSMENT

For each identified hazard consider the maximum credible, not absolute worst case risk that may result and select from each of the following lists.

	Likelihood of Occurrence
1	Expected to happen
2	Common
3	Sometimes
4	Rarely
5	Highly unlikely

	Severity of Result
A	Fatality
B	Permanent Disability
C	Lost Time Injury
D	Medical Treatment
E	First Aid Injury

Plot the categories selected from 'Likelihood of Occurrence' and 'Severity of Result' onto the Hazard Rating Grid to determine the Hazard Rating Number.

Eg. If we plot 4 & b on the Hazard Rating Grid, the Hazard Rating number will be 14.

## HAZARD RATING GRID

	A	B	C	D	E
1	1	2	4	7	11
2	3	5	8	12	16
3	6	9	13	17	20
4	10	14	18	21	23
5	15	19	22	24	25

The Hazard Rating Number calculated for the risk assessment Of an identified hazard is classified as follows:

**a) Relatively High Risk 1 to 6**

**b) Medium Risk 7 to 15**

**c) Relatively Low Risk 16 to 25 (acceptable risk)**