HAZARD EVALUATION AND CONTROL

1 OF 7

Description of Plant: Concrete Vibrator		Model No: <u>VP28,38,44</u>	,57 / VE19,22,28,38,44
Assessed By: Evan Miller	Company : Flextool (Aust) Pty Ltd	Date: 6/10/97	Issue:_A

azard Description	Hazard Y/N	Plant & / or Situation	Likelihood	Severity	Risk Control
A - ENTANGLEMENT 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	Entanglement with rotor while rotating	5	С	* Do not operate the machine unless all protective guards are in place.
3 - CRUSHING 1. Can anyone be crushed due to:-		-			
a. Material falling off the plant?	N				
b. Uncontrolled or unexpected movement of the plant or its load?	N				
c. Lack of capacity for the plant to be slowed, stopped or immobilised?	N				
d. The plant tipping or rolling over?	N				
e. Parts of the plant collapsing?	N				
f. Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	N				
g. Being thrown off or under the plant?	N				
h. Being trapped between the plant and material or fixed structures?	N				

^{*} Refer to Flextool operating instructions.

- Expected to Happen
 Common
- 3. Sometimes
- 4. Rarely5. Highly Unlikely

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

Hazard Description	Hazard Y/N	Plant & / or Situation	Likelihood	Severity	Risk Control
i. Other factors not mentioned?	N				
C. CUTTING, STABBING & PUNCTURING? 1. Can anyone be cut, stabbed or punctured due to:					
a. Coming in contact with sharp or flying objects?	Y	Contact with worn flexible shaft	3	E	* Use gloves when handling and inspecting the flexible shaft outer casing. Excessive wear of the rubber cover can expose the wire braided reinforcement, allowing it to project and cause injury.
 b. Coming in contact with moving parts of the plant during testing, inspection, operation, 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?	N				
D. SHEARING1. Can anyone's body parts be sheared between two parts of the plant, or material handled by the plant?	N				
E. FRICTION 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?	N				

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			Jeventy	Risk Control
N				
N				
Y	Splashing of concete	4	Е	* Goggles for eye protection may also be necessary.
N				
N				
N				
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Hazard Description	Hazard Y/N	Plant & / or Situation	Likelihood	Severity	Risk Control
f. Water near electrical equipment?	N				
g. Lack of isolation procedures?	N				
h. Other factors not mentioned?	N				
EXPLOSION 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?	N				
J. SLIPPING, TRIPPING & FALLING 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	Slip, trip, fall	3	E	* Slip/Trip/Fall is a major cause of serious injury or death. Beware of the flexible shaft and water left on the walking or work surface.
b. Poor housekeeping, eg, swarf in the vicinity of the plant, spillage not Cleaned up?	Y	Slip, trip, fall	3	Е	* Slip/Trip/Fall is a major cause of serious injury or death. Beware of the flexible shaft and water left on the walking or work surface.
c. Obstacles being placed in the vicinity of the plant, other factors not mentioned?	N				
Can anyone fall from a height due to:	·				
a. Lack of proper work platform?	N				
b. Lack of proper stairs or ladders?	N				

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c. Lack of guardrails or other suitable edge protection?	Y	Slip, trip, fall	3	С	* Slip/Trip/Fall is a major cause of serious injury or death. Beware of the flexible shaft and water left on the walking or work surface. * Exercise caution and ensure that the perimeter of elevated formwork or platforms is protected.
d. Unprotected holes, penetrations or gaps?	Y	Slip, trip, fall	3	С	* Slip/Trip/Fall is a major cause of serious injury or death. Beware of the flexible shaft and water left on the walking or work surface. * Exercise care when working in the vicinity of unprotected holes or excavations.
Poor floor or walking surfaces, such as the lack of a slip-resistant surface?	N				
f. Steep walking surfaces?	N				
g. Collapse of the supporting structure?	N				
h. Other factors not mentioned?	N				
K. ERGONOMIC1. Can anyone be injured due to:	•	•	·	•	
a. Poorly designated seating?	N				
b. Repetitive body movement?	Y	Operating vibrator	3	С	* Exercise care when handling vibrators. Exposure to vibration or repetitive work actions may be harmful to hands and arms.
c. Constrained body posture or the need for excessive effort?	N				
d. Inadequate or poorly placed lighting?	N				
Lack of consideration given to human error or human behaviour?	N				

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Risk Control	Severity	Likelihood	Plant & / or Situation	Hazard Y/N	Hazard Description
				N	f. Mismatch of the plant with human traits and natural limitations?
				N	g. Other factors not mentioned?
				N	SUFFOCATION 1. Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?
				N	M. HIGH TEMPERATURE OR FIRE 1. Can anyone come into contact with objects at high temperature?
* Use waterproof protection for hands and knees (if kneeling) when concreting. If your clothing becomes wet from concrete contact make sure you change the clothing. Do not walk about waiting for it to dry.	Ш	4	Wet clothing	Y	N. TEMPERATURE (THERMAL COMFORT) 1. Can anyone suffer ill health due to exposure to high or low temperatures?
				N	O. OTHER HAZARDS 1. Can anyone be injured or suffer ill health from exposure to:
				N	a. Chemicals?
				N	b. Toxic gases or vapours?
				N	c. Fumes?
				N	d. Dust?
* Excessive noise can lead to temporary or permanent loss of hearing. * Wear an approved hearing protection device to limit noise exposure. as required by Occupational Health and Safety regulations. Noise levels in excess of 85dB(A) may be produced by engines and vibrators.		2	Vibrator operation	Y	e. Noise?
	В	2	Vibrator operation		d. Dust?

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f. Vibration?	Y	Vibrator operation	4	D	* Exercise care when handling vibrators. Exposure to vibration or repetitive work actions may be harmful to hands and arms. * Do not hold the vibrator head in your hands while it is running. Hold the vibrator by the flexible shaft to isolate your hands from the vibration. * Never stand on the vibrating head while it is operating. * Do not place your foot on the vibrator head while it is running unless it is done momentarily and the vibrator head is resting on a resilient support such as a car tyre.
g. Radiation	N				
h. Other factors not mentioned?	N				

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