

**6 RISK ASSESSMENT – CP150i**

Activity	Hazard	Initial Risk			Current Control Measures & Action Required - New Press	Residual Risk		
		P	C	Risk		P	C	Risk
Lifting of Pumpset by single point lifting frame	Excessive lateral movement of unit – crushing	C	1	4	<ul style="list-style-type: none"> <li>Only qualified personnel to use lifting equipment</li> <li>Hoisting acceleration should not exceed 0.4m/sec<sup>2</sup></li> <li>Ensure lifting equipment is in good condition</li> <li>Keep all personnel away from Pumpset when it is suspended</li> <li>Do not lift Pumpset by any other method than the central lifting eye</li> <li>Do not lift in extreme weather conditions</li> <li>Stop &amp; think</li> <li>Correct PPE</li> </ul>	E	4	21
Setting up the Pumpset	Slips, trips, strain, sprains and pinch points	B	3	9	<ul style="list-style-type: none"> <li>Wear correct PPE</li> <li>Stop and think</li> <li>Inspect area to ensure safe working conditions</li> <li>Set up on level ground</li> <li>Communicate with personnel located/working in vicinity of Pumpset</li> <li>Clean up any spillages causing trip hazards</li> <li>Do not operate Pumpset in known unsafe conditions</li> <li>Do not use Pumpset in any classification of hazardous environment unless it has been specifically designed to do so</li> <li>Do not operate within a confined space</li> </ul>	C	3	13
Operation of Pumpset	Excessive Noise – hearing loss	B	2	5	<ul style="list-style-type: none"> <li>Wear correctly fitting hearing protection at all times when working or operating around the Pumpset</li> <li>Stop &amp; think</li> </ul>	E	2	16

**Sykes CP150i – Installation, Operation & Maintenance Manual**

Activity	Hazard	Initial Risk			Current Control Measures & Action Required - New Press	Residual Risk		
		P	C	Risk		P	C	Risk
Operation of Pumpset	Boom movement (Suction Hose Boom) – pinch points & crushing	C	2	8	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Do not operate Pumpset in known unsafe conditions</li> <li>• Do not use Pumpset in any classification of hazardous environment unless it has been specifically designed to do so</li> <li>• Do not operate within a confined space</li> <li>• Keep all personnel away from Pumpset when boom is tilted, raised or lowered</li> <li>• Do not move Pumpset whilst operating the boom</li> <li>• Ensure boom lifting equipment is in good condition</li> <li>• Do not operate Boom in known unsafe conditions</li> <li>• Communicate with personnel located/working in vicinity of Pumpset</li> </ul>	D	2	12
Operation of Pumpset	Running engine & Pump Unit – moving parts, hot pump parts, hot exhaust and manifolds on engine – possible burns, pinch points, cuts and abrasions	B	2	5	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Educate employees of burn hazards on engines</li> <li>• Keep access door on enclosures closed and locked when not required to be open</li> <li>• Ensure that the engine is operated only from the control panel or from the operator's position by one person only</li> <li>• Keep hands, arms, long hair, loose clothing and jewellery away from pulleys, belts and other moving parts</li> <li>• Do not remove any safety guards or panel</li> </ul>	D	2	12
Operation of Pumpset	Hydraulic, fuel, grease, oil, radiator coolant, water pressure, movement of pump water hose and battery electrolyte leaks – environmental pollution, poisoning, burns & skin irritation	C	2	8	<ul style="list-style-type: none"> <li>• Stop &amp; think</li> <li>• Wear correct PPE</li> <li>• Check all hoses for cracks and leaks</li> <li>• Check that all covers and caps are secure on alternator, cooling fan/radiator, engine &amp; fuel tank</li> <li>• Ensure spillages are contained</li> <li>• MSDS available for all items used in Pumpset</li> <li>• Educate employees of burn hazards</li> </ul>	D	3	17

**Sykes CP150i – Installation, Operation & Maintenance Manual**

Activity	Hazard	Initial Risk			Current Control Measures & Action Required - New Press	Residual Risk		
		P	C	Risk		P	C	Risk
Operation of Pumpset (Diesel Driven)	Possible electrocution – electric shock and burns	C	3	13	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Only Authorised Personnel to work on electrical equipment</li> <li>• Check all conduits for splits, bare wires or unsecured conduit fitting prior to operation of Pumpset</li> <li>• Check all circuit breaker boards are secure and sealed</li> <li>• Check all guards covering electrical section are secured correctly</li> <li>• Do not attempt to connect or disconnect load while standing in water or on wet or soggy ground</li> <li>• Ensure all electrical power is isolated from electrical equipment being serviced</li> <li>• Keep all electrical equipment clean and dry</li> <li>• Keep terminals clean and tight</li> <li>• Test earth leakage equipment regularly</li> <li>• Ensure correct fire extinguisher is available</li> </ul>	D	4	21

**Sykes CP150i – Installation, Operation & Maintenance Manual**

Activity	Hazard	Initial Risk			Current Control Measures & Action Required - New Press	Residual Risk		
		P	C	Risk		P	C	Risk
Operation of Pumpset	Possible electrocution – electric shock and burns	B	2	5	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Only Authorised Personnel to work on electrical equipment</li> <li>• Check all conduits for splits, bare wires or unsecured conduit fitting prior to operation of Pumpset</li> <li>• Check all circuit breaker boards are secure and sealed</li> <li>• Check all guards covering electrical section are secured correctly</li> <li>• Do not attempt to connect or disconnect load while standing in water or on wet or soggy ground</li> <li>• Ensure all electrical power is isolated from electrical equipment being serviced</li> <li>• Keep all electrical equipment clean and dry</li> <li>• Keep terminals clean and tight</li> <li>• Test earth leakage equipment regularly</li> <li>• Ensure correct fire extinguisher is available</li> </ul>	D	3	17
Maintenance – Electrical Battery charging	Possible explosion – burns and bodily injuries	B	1	2	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Correctly isolate equipment</li> <li>• Do not smoke or allow sparks, flames or other sources of ignition around batteries</li> <li>• To avoid arcing keep grounded conductive objects, such as tools, away from exposed live electrical parts, such as terminals</li> <li>• When disconnecting battery disconnect the negative battery terminal first</li> <li>• When reconnecting battery connect the negative battery terminal last</li> <li>• Ensure adequate ventilation</li> <li>• Turn off power or disconnect the power to the battery charger before making or breaking connections with the battery</li> </ul>	D	3	17

**Sykes CP150i – Installation, Operation & Maintenance Manual**

Activity	Hazard	Initial Risk			Current Control Measures & Action Required - New Press	Residual Risk		
		P	C	Risk		P	C	Risk
Maintenance - Electrical	Possible electrocution – electric shock and burns	B	3	9	<ul style="list-style-type: none"> <li>• Wear correct PPE</li> <li>• Stop &amp; think</li> <li>• Correctly isolate equipment</li> <li>• Only Authorised Personnel to work on electrical equipment</li> <li>• Do not attempt to connect or disconnect load while standing in water or on wet or soggy ground</li> <li>• Ensure all electrical power is isolated from electrical equipment being serviced</li> <li>• Keep all electrical equipment clean and dry</li> <li>• Keep terminals clean and tight</li> <li>• Test earth leakage equipment regularly</li> <li>• Ensure correct fire extinguisher is available</li> </ul>	D	4	21
Maintenance – refilling fuel tank	Fuel leaks – environmental pollution, poisoning, burns & skin irritation	B	3	9	<ul style="list-style-type: none"> <li>• Stop &amp; think</li> <li>• Wear correct PPE</li> <li>• Correctly isolate equipment</li> <li>• Check all hoses and fittings for cracks and leaks</li> <li>• Ensure spillages are contained</li> <li>• MSDS available for fuel used in lighting tower</li> <li>• Educate employees of burn hazards</li> </ul>	D	4	21

**Sykes CP150i – Installation, Operation & Maintenance Manual**

---

Maintenance - mechanical	Engine, hydraulic pump and centrifugal pumpend maintenance – explosion, burns, pinch points, skin irritation	C	4	18	<ul style="list-style-type: none"> <li>•</li> <li>• Stop &amp; think</li> <li>• Wear correct PPE</li> <li>• Correctly isolate equipment</li> <li>• MSDS available for items used in Pumpset</li> <li>• Ensure spillages are contained</li> <li>• Check all hoses and fittings for cracks and leaks</li> <li>• Correctly de-energise hydraulic system</li> <li>• Ensure guarding is in place and secure after maintenance is finished</li> <li>• Do not remove the radiator filler cap until the coolant has cooled. Then loosen the cap slowly to relieve any excess pressure before removing the cap completely</li> <li>• Educate employees on hazards of hot coolant and oil under pressure</li> <li>• Bleed Hydraulic Pressure before carrying out maintenance.</li> <li>• Allow Hydraulic Oil to cool before maintenance.</li> <li>• Educate employees of burn hazards</li> <li>• Ensure correct fire extinguisher is available</li> <li>•</li> </ul>	D	4	21
--------------------------	--	---	---	----	--	---	---	----