This form is to be used to identify hazards associated with plant, machinery and equipment and to establish safety control measures to prevent harm to life, health, property and the environment. The assessment is to be retained for verification requirements.

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| **General Information** | | | |
| **Risk Assessment Number:** | **Date Conducted:** | | **Date Reviewed:** |
| **Plant/ Equipment Item:** | **Make/ Model #:** | | **Serial No.:** |
| **Site Address:** | | | |
| **Assessmentteam - Names:** | **Signatures:** | | **Summary of key risks:** |
| **Does the plant need to be registered**  Yes  No | | If yes, are records maintained as required:  Yes  No | |
| **Does the operator require a licence or competency** | Yes  No | If yes, describe required type: | |

|  |  |  |  |  |  |  |  |
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| **1.0** | **Plant Inspection, Testing & Maintenance** | **Hazard is Present** | Con-sequence | Likelihood | Risk  Rating | **Description of Risk** | **Control Measures** |
| 1.1 | Is regular maintenance conducted on plant and records retained for verification? | Yes  No |  |  |  |  |  |
| 1.2 | Is the plant inspected on a regular basis? | Yes  No |  |  |  |  |  |
| 1.3 | Is testing of the plant carried out by a competent person where required? | Yes  No |  |  |  |  |  |
| 1.4 | Can anyone be injured as a result of the plant not being serviced appropriately and/or maintained in line with manufacturer’s recommendations? | Yes  No |  |  |  |  |  |
| **2.0** | **Guarding** | **Hazard is Present** | Con-sequence | Likelihood | Risk  Rating | **Description of Risk** | **Control Measures** |
| 2.1 | Is guarding used and in place? | Yes  No |  |  |  |  |  |
| 2.2 | Is guarding of solid construction and securely mounted - (i.e. resist impact or shock)? | Yes  No |  |  |  |  |  |
| 2.3 | Is guarding difficult to bypass or disable? | Yes  No |  |  |  |  |  |
| 2.4 | Is guarding properly maintained? | Yes  No |  |  |  |  |  |
| 2.5 | Can guarding be removed to allow maintenance and cleaning of plant when the plant is not in normal operation? | Yes  No |  |  |  |  |  |
| 2.6 | If the guarding can be removed, can the plant be restarted whilst the guarding is not attached? | Yes  No |  |  |  |  |  |
| 2.7 | Electronic sensor guarding is working and cannot be bypassed? | Yes  No |  |  |  |  |  |
| 2.8 | All switches are clearly marked? | Yes  No |  |  |  |  |  |
| **3.0** | **Operational Controls** | **Hazard is Present** | Con-sequence | Likelihood | Risk  Rating | **Description of Risk** | **Control Measures** |
| 3.1 | Can operational controls be identified on the plant? | Yes  No |  |  |  |  |  |
| 3.2 | Do they indicate their nature, function and direction of operation? | Yes  No |  |  |  |  |  |
| 3.3 | Are operational controls conveniently located? | Yes  No |  |  |  |  |  |
| 3.4 | Are operational controls located or guarded to prevent unintentional activation? | Yes  No |  |  |  |  |  |
| 3.5 | Can they be locked into the “off” position to enable the disconnection of power? | Yes  No |  |  |  |  |  |
| **4.0** | **Emergency Stops** | **Hazard is Present** | Con-sequence | Likelihood | Risk  Rating | **Description of Risk** | **Control Measures** |
| 4.1 | Does the plant have emergency stops? | Yes  No |  |  |  |  |  |
| 4.2 | Are emergency stops prominent, clearly and durably marked? | Yes  No |  |  |  |  |  |
| 4.3 | Are they immediately accessible to the plant operator? | Yes  No |  |  |  |  |  |
| 4.4 | Are emergency stops coloured red? | Yes  No |  |  |  |  |  |
| 4.5 | Can the emergency stop be adversely affected by electrical or electronic circuit malfunction? | Yes  No |  |  |  |  |  |
| **5.0** | **General Hazard & Risk Identification** | **Hazard is Present** | Con-sequence | Likelihood | Risk  Rating | **Description of Risk** | **Control Measures** |
| **Entanglement - Can anyone be injured due to:** | | | | | | | |
| 5.1 | Can anyone’s hair, clothing, gloves, cleaning brushes, tools, rags or other materials become entangled with moving parts of the plant or materials? | Yes  No |  |  |  |  |  |
| **Crushing – Can anyone be crushed due to:** | | | | | | | |
| 5.2 | Material falling off the plant? | Yes  No |  |  |  |  |  |
| 5.3 | Uncontrolled or unexpected movement of the plant or its load? | Yes  No |  |  |  |  |  |
| 5.4 | Lack of capacity of for the plant to be slowed, stopped or immobilised? | Yes  No |  |  |  |  |  |
| 5.5 | The plant tipping or rolling over? | Yes  No |  |  |  |  |  |
| 5.6 | Parts of the plant collapsing? | Yes  No |  |  |  |  |  |
| 5.7 | Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? | Yes  No |  |  |  |  |  |
| 5.8 | Being thrown off or under the plant? | Yes  No |  |  |  |  |  |
| 5.9 | Being trapped between the plant and materials or fixed structures? | Yes  No |  |  |  |  |  |
| 5.10 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **Cutting, Stabbing and Puncturing – Can anyone be cut, stabbed or punctured due to:** | | | | | | | |
| 5.11 | Coming in contact with sharp or flying objects? | Yes  No |  |  |  |  |  |
| 5.12 | Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant? | Yes  No |  |  |  |  |  |
| 5.13 | The plant, parts of the plant or work pieces disintegrating? | Yes  No |  |  |  |  |  |
| 5.14 | Work pieces being ejected? | Yes  No |  |  |  |  |  |
| 5.15 | The mobility of the plant? | Yes  No |  |  |  |  |  |
| 5.16 | Uncontrolled or unexpected movement of the plant? | Yes  No |  |  |  |  |  |
| 5.17 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **Shearing - Can anyone be injured due to:** | | | | | | | |
| 5.18 | Can anyone’s body parts be sheared between two parts of the plant, or between a part of the plant and a work piece or structure? | Yes  No |  |  |  |  |  |
| **Friction - Can anyone be injured due to:** | | | | | | | |
| 5.19 | Can anyone be burnt due to contact with moving parts of surfaces of the plant, or between a part of the plant and a work piece of structure? | Yes  No |  |  |  |  |  |
| **Striking - Can anyone be struck by moving objects due to:** | | | | | | | |
| 5.20 | Uncontrolled or unexpected movement of the plant or material handled by the plant? | Yes  No |  |  |  |  |  |
| 5.21 | The plant, parts of the plant or work pieces disintegrating? | Yes  No |  |  |  |  |  |
| 5.22 | Work pieces being ejected? | Yes  No |  |  |  |  |  |
| 5.23 | Mobility of the plant? | Yes  No |  |  |  |  |  |
| 5.24 | Plant colliding with any person or object? | Yes  No |  |  |  |  |  |
| 5.25 | Contact with moving parts if testing, inspection, operation, maintenance, cleaning or repair? | Yes  No |  |  |  |  |  |
| 5.26 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **High Pressure Fluid - Can anyone be injured due to:** | | | | | | | |
| 5.27 | Can anyone be injured by fluids under high pressure, due to plant failure or misuse? | Yes  No |  |  |  |  |  |
| **Electric Shock / Burns - Can anyone be injured by electrical shock or burnt due to:** | | | | | | | |
| 5.28 | The plant contacting live electrical conductors? | Yes  No |  |  |  |  |  |
| 5.29 | The plant working in close proximity to electrical conductors? | Yes  No |  |  |  |  |  |
| 5.30 | Overload of electrical circuits? | Yes  No |  |  |  |  |  |
| 5.31 | Damaged or poorly maintained electrical leads and cables? | Yes  No |  |  |  |  |  |
| 5.32 | Damaged electrical switches/ cables? | Yes  No |  |  |  |  |  |
| 5.33 | Water near electrical equipment? | Yes  No |  |  |  |  |  |
| 5.34 | Lack of isolation procedures? | Yes  No |  |  |  |  |  |
| 5.35 | Contact with objects at high temperatures? | Yes  No |  |  |  |  |  |
| 5.36 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **Explosion - Can anyone be injured due to:** | | | | | | | |
| 5.37 | 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? | Yes  No |  |  |  |  |  |
| **Slipping, Tripping and Falling – Can using the plant, or in the vicinity of the plant, slip, trip or fall due to:** | | | | | | | |
| 5.38 | Uneven or slippery work surfaces? | Yes  No |  |  |  |  |  |
| 5.39 | Poor housekeeping, e.g. Swarf in the vicinity of the plant, spillage not cleaned up? | Yes  No |  |  |  |  |  |
| 5.40 | Obstacles being placed in the vicinity of the plant? | Yes  No |  |  |  |  |  |
| 5.41 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **Heights - Can anyone be injured due to:** | | | | | | | |
| 5.42 | Lack of proper work platform? | Yes  No |  |  |  |  |  |
| 5.43 | Lack of proper stairs or ladders? | Yes  No |  |  |  |  |  |
| 5.44 | Lack of guardrails or other suitable edge protection? | Yes  No |  |  |  |  |  |
| 5.45 | Unprotected holes, penetrations or gaps? | Yes  No |  |  |  |  |  |
| 5.46 | Poor floor or walking surfaces, such as the lack of a slip-resistant surface? | Yes  No |  |  |  |  |  |
| 5.47 | Steep walking surfaces? | Yes  No |  |  |  |  |  |
| 5.48 | Collapse of the supporting structure? | Yes  No |  |  |  |  |  |
| 5.49 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| 5.50 | Objects falling? | Yes  No |  |  |  |  |  |
| **Ergonomics –Can anyone be injured due to:** | | | | | | | |
| 5.51 | Poorly designed seating? | Yes  No |  |  |  |  |  |
| 5.52 | High forces or constrained postures? | Yes  No |  |  |  |  |  |
| 5.53 | Repetitive body movement? | Yes  No |  |  |  |  |  |
| 5.54 | Constrained body posture or the need for excessive effort? | Yes  No |  |  |  |  |  |
| 5.55 | Design deficiency causing mental or psychological stress? | Yes  No |  |  |  |  |  |
| 5.56 | Inadequate or poorly placed lighting? | Yes  No |  |  |  |  |  |
| 5.57 | Lack of consideration given to human error or human behaviour? | Yes  No |  |  |  |  |  |
| 5.58 | Mismatch of the plant with human traits and natural limitations? | Yes  No |  |  |  |  |  |
| 5.59 | Other factors not mentioned? | Yes  No |  |  |  |  |  |
| **Suffocation – Can anyone be injured due to:** | | | | | | | |
| 5.60 | Suffocation due to lack of oxygen or atmospheric contamination? | Yes  No |  |  |  |  |  |
| **Temperature - (including Thermal Comfort indoor and outdoor)** | | | | | | | |
| 5.61 | Can anyone suffer ill-health due to exposure to high or low temperatures? | Yes  No |  |  |  |  |  |
| 5.62 | Can anyone come in contact with objects at low temperatures? | Yes  No |  |  |  |  |  |
| **High Temperature - Fire** | | | | | | | |
| 5.63 | Can anyone come into contact with objects at high temperatures? | Yes  No |  |  |  |  |  |
| 5.64 | Can anyone be injured by fire? | Yes  No |  |  |  |  |  |
| **Mechanical Failure?** | | | | | | | |
| 5.65 | Can anyone be exposed to a risk to health and safety due to mechanical failure of pressurised elements that may release fluids which pose a risk to health and safety? | Yes  No |  |  |  |  |  |
| **Load Shifting – Forklifts / Cranes: Can anyone be injured due to:** | | | | | | | |
| 5.66 | SWL not marked on lifting device? | Yes  No |  |  |  |  |  |
| 5.67 | Unsuitable / inappropriate devices being used? | Yes  No |  |  |  |  |  |
| 5.68 | Plant intended to lift people? | Yes  No |  |  |  |  |  |
| **Other Hazards – Can anyone be injured or suffer ill-health from exposure to:** | | | | | | | |
| 5.69 | Noise? | Yes  No |  |  |  |  |  |
| 5.70 | Vibration? | Yes  No |  |  |  |  |  |
| 5.71 | Radiation? | Yes  No |  |  |  |  |  |
| 5.72 | Chemicals? | Yes  No |  |  |  |  |  |
| 5.73 | Toxic gases or vapours? | Yes  No |  |  |  |  |  |
| 5.74 | Fumes/ Dusts? | Yes  No |  |  |  |  |  |
| 5.75 | Other - (please specify)? | Yes  No |  |  |  |  |  |
| 5.76 | Placarding and Signage? | Yes  No |  |  |  |  |  |
| **Training Procedures: Can anyone be injured due to:** | | | | | | | |
| 5.77 | Safe Working Procedures / SWMS/JSEA not developed, displayed? | Yes  No |  |  |  |  |  |
| 5.78 | Employees not having received training on the safe use of plant? | Yes  No |  |  |  |  |  |
| 5.79 | Could systems associated with the plant create potential hazards? | Yes  No |  |  |  |  |  |