|  |  |  |
| --- | --- | --- |
| Can anyone become entangled? | Yes/No | How and where could this occur? |
| Can a person’s hair, clothing, gloves, necktie, jewellery, cleaning brush or rag become entangled with moving parts of the plant? |  |  |

|  |  |  |
| --- | --- | --- |
| Can anyone be crushed due to: | Yes/No | How and where could this occur? |
| Material falling off the plant? |  |  |
| Uncontrolled or unexpected movement of the plant? |  |  |
| Lack of capacity for the plant to be slowed, stopped or immobilised? |  |  |
| The plant tipping or rolling over? |  |  |
| Parts of the plant collapsing? |  |  |
| Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? |  |  |
| Being thrown off or under plant? |  |  |
| Being trapped between the plant and materials or fixed structures? |  |  |

|  |  |  |
| --- | --- | --- |
| Can anyone be stabbed or punctured due to: | Yes/No | How and where could this occur? |
| Coming in contact with sharp or flying objects? |  |  |
| Coming in contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair? |  |  |
| The plant, parts of the plant or work pieces disintegrating? |  |  |
| Work pieces being ejected? |  |  |
| The mobility of the plant? |  |  |
| Uncontrolled or unexpected movement of the plant? |  |  |

|  |  |  |
| --- | --- | --- |
| Shearing | Yes/No | How and where could this occur? |
| 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? |  |  |

|  |  |  |
| --- | --- | --- |
| High Pressure Fluid  | Yes/No | How and where could this occur? |
| Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant? |  |  |

|  |  |  |
| --- | --- | --- |
| Striking. Can anyone be struck by moving objects due to:  | Yes/No | How and where could this occur? |
| Uncontrolled or unexpected movement of the plant or material handled by the plant?  |  |  |
| Parts of the plant or work pieces disintegrating?  |  |  |
| Work pieces being ejected?  |  |  |
| Mobility of the plant?  |  |  |

|  |  |  |
| --- | --- | --- |
| Explosion: Can anyone by injured due to: | Yes/No | How and where could this occur? |
| Explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant? |  |  |

|  |  |  |
| --- | --- | --- |
| Electrical: Can anyone be injured by electrical shock or burnt due to: | Yes/No | How and where could this occur? |
| The plant contacting or working in close proximity to electrical conductors, such as Arcflash?  |  |  |
| Overload of electrical circuits?  |  |  |
| Damaged or poorly maintained electrical leads and cables?  |  |  |
| Damaged electrical switches?  |  |  |
| Water near electrical equipment?  |  |  |
| Lack of isolation procedures?  |  |  |

|  |  |  |
| --- | --- | --- |
| Slip, trips and falls. Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: | Yes/No | How and where could this occur? |
| Uneven or slippery work surfaces? |  |  |
| Poor housekeeping e.g. offcuts, cables, hoses obstructing walkways, spills not cleaned up? |  |  |
| Obstacles being placed in the vicinity of the plant? |  |  |
| Lack of a proper work platform, stairs or ladders? |  |  |
| Lack of guardrails or other suitable edge protection? |  |  |
| Unprotected holes, penetrations or gaps? |  |  |
| Steep walking surfaces? |  |  |
| Collapse of the supporting structure? |  |  |
| Limited space around machinery for people to work or workers on foot? (600mm minimum width) |  |  |

|  |  |  |
| --- | --- | --- |
| Ergonomics. Can anyone be injured due to | Yes/No | How and where could this occur? |
| Poorly designed seating or operator controls? |  |  |
| High forces or vibration? |  |  |
| Repetitive movements? |  |  |
| Awkward body posture or the need for excessive effort? |  |  |
| Reaching an Emergency Stop from where they work? |  |  |

|  |  |  |
| --- | --- | --- |
| Can anyone be injured due to unexpected start-up, unexpected over-run/over-speed from: | Yes/No | How and where could this occur? |
| Failure/disorder of the control system, for example a hydraulic or pneumatic system? |  |  |
| Restoration of energy supply after an interruption or emergency stop function? |  |  |
| External influences on electrical equipment? |  |  |
| Other environmental factors (gravity, wind, etc.)? |  |  |
| Errors in the software? |  |  |
| Errors made by the operator? |  |  |

|  |  |  |
| --- | --- | --- |
| Other hazards. Can anyone be injured due to: | Yes/No | How and where could this occur? |
| Noise? |  |  |
| Inadequate or poorly placed lighting? |  |  |
| Entry into any confined spaces of the plant? |  |  |
| Use of the plant outside it’s design? |  |  |
| Contact with hot or cold parts of plant? |  |  |
| Exposure to hazardous chemicals or other emissions? |  |  |
| Lack of operator knowledge, competency or experience? |  |  |