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| **Task/Description:** Servicing Machinery | | |
| **Assessed By:** | Trevor Wratten | **Approved By:** John Haddow |
| **Assessment Date:** | 11th April 2023 | **Review Date: 11th April 2026**  (Review not to exceed 3 years from assessment date) |

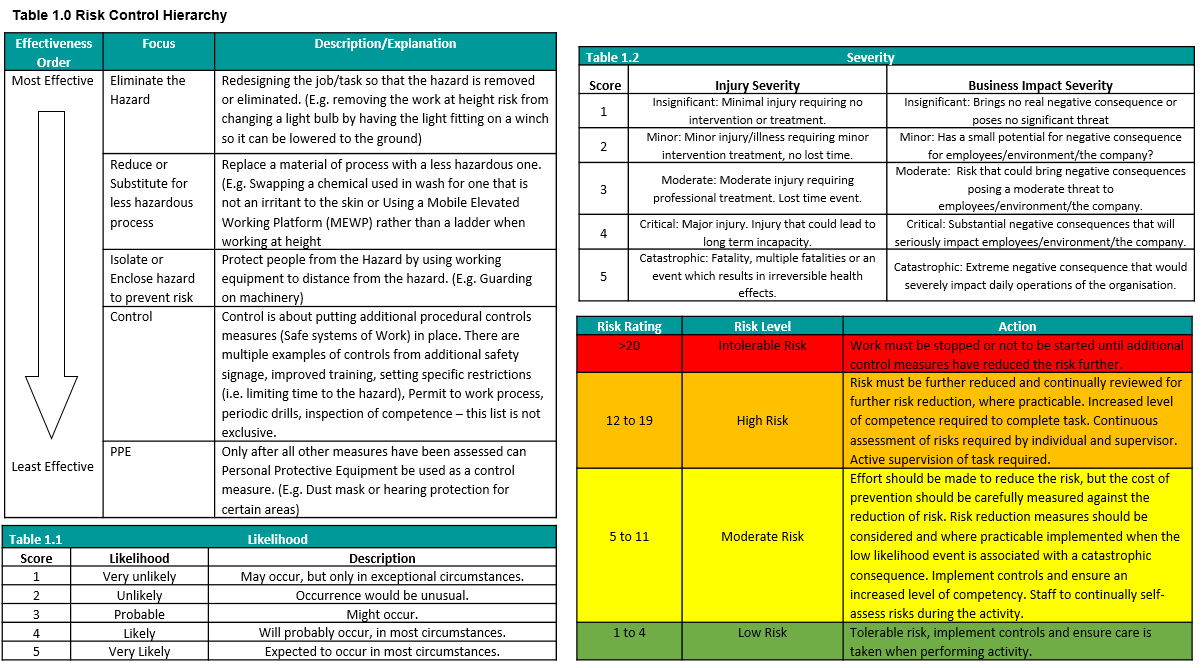
For specific risks we MUST have specific assessments – such as COSHH, DSE, Fire, Manual Handling, the business has specific forms for such RA’s, which should be referenced in the ‘Additional Information’ column.

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| **Hazard Identification – Indicate which of the following hazards are considered in this assessment** | | | | | |
| Access or egress |  | Harmful/Toxic substances |  | Power operated tools or machinery |  |
| Asbestos |  | Hazard to other activities |  | Pressure (implosion/explosion/high pressure system) | x |
| Biological agent/hazard |  | Hazards from other activities |  | Radiation (Ionising/non-ionising) |  |
| Confined space | x | Hot works/radiant heat |  | Remotely operated machinery |  |
| Corrosive/Irritant/Sensitising Substance | x | Impact/Contact hazards |  | Rotating Parts (Entanglement) | x |
| Crush hazards |  | Lasers |  | Slip trips and falls | x |
| Dust/particles | x | Lead |  | Stored energy | x |
| Electrical | x | Lighting | x | Temperature (hot/cold environment/surfaces) |  |
| Ergonomic factors (repetitive/posture/stretching) | x | Lone working | x | Traps/nips |  |
| Excavations |  | Manual handling | x | Underground services |  |
| Falling or flying objects |  | Mobile plant |  | Vapours/Mists | x |
| Falls from height | x | Needle stick or Sharps |  | Vehicle/Plant Movements | x |
| Fire or explosion |  | Noise |  | Ventilation |  |
| Flames, sparks radiant heat |  | Overhead services |  | Vibration (whole body/hand-arm) |  |
| Flammable Substances |  | Pace of Work |  | Violence/abuse/assault |  |
| Fumes |  | Pedestrian access and egress |  | Weather conditions | x |
| Hand operated tools or machinery | x | Pedestrian movement | x | Working near water |  |
| Harmful or explosive gases |  | Pneumatic tools/compressed air |  | Other (please state) | x |

| **Hazard No.** | **Record Significant Hazards** | **Person(s) at Risk** | **Existing Control Measures** | **Initial**  **Risk Rating** | | | **Additional Control Measures** | **Residual**  **Risk Rating** | | | **Additional**  **Information** | |
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| **S** | **L** | **R** | **S** | **L** | **R** |  |
| Provide specific details. E.g. ‘work at height” say how high. E.g. “Electricity” state voltage and type of hazard, Striking underground services | Who might be harmed and how E.g. “Contractor or Employee Fall from Height” | Detail existing control measures.  These are the controls that are currently in place | S – Severity  L – Likelihood  R - Risk | | | Detail additional control measures needed to eliminate hazard completely or minimise risk to acceptable level.  (Include in Action Plan) | S – Severity  L – Likelihood  R - Risk | | | Cross Reference & Additional  Information e.g. SSW, | |
| **H1** | **Manual Handling**   * Lifting and lowering (e.g. cylinders) * carrying toolboxes/ equipment, * pushing and pulling loads into position. * Ergonomic positioning | **PHS Engineer**   * Musculoskeletal injuries or disorders | * Engineers are trained in manual handling (ROSPA accredited course) * Manual handling training refreshed every 3yrs or sooner if needed. * Task assessment complete as per WI 57-19/19A. * Engineers to assess loads prior to lifting, including removal and refitting of access panels * Engineers to not lift weights above their capacity. * Mechanical lifting aids are available via ROC team and should be considered for use ahead of a two-person lift being implemented. * Two-person lifting is available and should be implemented if identified through the point of work risk assessment. * Lifts are not considered repetitive in nature as engineers are not expected to lift a load multiple times within a single hour. * Engineers advised to avoid carrying heavy loads over substantial distances and to use mechanical lifting aids if needed. | 3 | 3 | 9 |  |  |  |  | * WI 57-19/19A. |
| **H2** | **Slip/trip/fall**   * Poor Housekeeping * Poor storage of materials. * Slippery surfaces * Uneven ground conditions | **PHS Engineer**  **Clients Employees**  **Members of public**   * Falling over/on objects * Tripping on objects * Slipping on surfaces | * Oil spill kits are located on Engineers vans * Oil kits restocked when needed from stores. * Spillages are dealt with in accordance with RA-009 Oil Spillages * MSDS available to all engineers * Warning signs and barriers to be used to cordon off spillage areas * Engineers to maintain good level of housekeeping and working tidy. * Engineers to follow clients site rules. * Managers to periodically audit engineers * All engineers complete ROSPA approved Workplace Slips, trips and falls course – with 3 yearly refreshers. * Yellow Rules (H&S) training slips, trips and falls completed by all engineers * Follow clients site rules * Inform the client of any spillage. * PPE: Safety footwear in line with BS EN 20345. | 3 | 2 | 6 |  |  |  |  | * RA009 Oil Spillages |
| **H3** | **Lighting**:   * Poor lighting in area * Automated lighting (switching off -whilst working) | **PHS Engineer**  **Clients Employees**   * Harm is an increase in risk from other hazards, e.g. slip trip, striking object, and others. | * Engineers instructed not to work in situations that they deem to have insufficient lighting to work safely. * Head/hand torch provided to each engineer for specific task lighting * Additional lighting such as stand lighting is also available if required. * Engineers to ask client contact if they can turn off any automated lighting sensors so that lighting remains on when working on the baler. | 2 | 2 | 4 |  |  |  |  |  |
| **H4** | **Electrical:**   * Electrical shock, burns, * Fire and explosion from electrical shortage | **PHS Engineer**  **Clients Employees**   * Electric charge/ shock injury as a result of contact with live wires/battery | * Engineers trained in safe working on electrical equipment * All electrical hand tools are PA tested (annually) and use 24v DC, 110Vac or 230v ac with RCD (Residual Current Device) protection. * Pre use inspection complete by engineers * Engineers are trained in electrical safety (ROSPA Accredited) with 3 yearly refresher training. * Engineers trained in PHS Yellow Rules – Electrical safety. * Electrical isolation of equipment is advised prior to working on the units. * Engineers advised to prove (Lock off Tag out) electrical contacts are dead prior to working on them. * Method statement MS0020 to be followed to deal with potential earth faults | 5 | 1 | 5 |  |  |  |  | * RA007 working on electrical equipment * RA0020 working on electrical circuits |
| **H5** | **Pressure**:   * From loss of containment in the hydraulic system | **PHS Engineer**  **Clients**  **Employees**   * Hydraulic injection * Contact with skin/eyes/ ingestion | * Engineers discharge any residual pressure from the system before working on the unit. * Hoses are guarded – where possible. * Hose whip cords in place where needed * Hoses checked for damaged/deterioration on installation and during inspections. * Defective/damaged hoses replaced. * Non -essential persons asked to vacate the area during testing * PPE: Nitrile gloves issued and worn by all engineers to avoid skin contact, * PPE: Safety Glasses Compliant with EN 166 issued and worn by engineers when working on Hydraulic systems. | 4 | 1 | 4 |  |  |  |  |  |
| **H6** | **Other: Mechanical Hazard:**   * From working on the baler and interacting with components | **PHS Engineer**   * Crush Hazard/ * Traps/nips * Contact with sharp | * Engineers trained in the safe procedure for changing components, use of work-place equipment. * Engineers to ensure guarding is in place prior to energising the machine. * PPE: Safety footwear in line with EN 20345, S1P standard. * Safety gloves in line with EN388, OGL 2065 4.1.3.1 | 4 | 2 | 8 |  |  |  |  |  |
| **H7** | **Weather conditions**  Relevant when balers are located outside buildings. Hazards include:   * Heat * Cold * Wind * Precipitation * Lightning * Snow and ice | **PHS Engineer**   * Hypothermia * Hyperthermia * Heat exposure * Working in wet conditions * Struck by lightning | * Engineers instructed to not work outside during a thunderstorm where lightning is occurring. * Engineers instructed to take regular breaks during extremes of heat/cold in order to remain suitably warm/cool, ensuring they remain hydrated. * Suitable clothing for the relevant environment is advised. * Hand torches are issued and should be used to external works to ensure suitable lighting levels. * PPE: Waterproof clothing compliant with EN343 is available for engineers to order should they require it. | 2 | 4 | 8 |  |  |  |  |  |
| **H8** | **Fall from Height**   * From use of ladders * From use of working platforms | **PHS Engineer**   * Fall from height | * Engineers are trained (ROSPA accredited) in working at Height * Engineers work in accordance with WI 57-22 * Work ladders and platforms meet at minimum EN131 * Ladders and platforms are checked in line with WI 28-01G before use * All Engineers trained in PHS Yellow Rules: Working at Height * All ladders and platforms are registered and tagged. * Staff to only use ladders/platforms provided by PHS. * Managers perform spot-check audits of equipment | 4 | 2 | 8 |  |  |  |  | * RA0013 Working at height * WI 57-22 * WI 28-01G |
| **H9** | **Vehicle and plant movements**   * Third party or PHS vehicles * Forklift truck | **PHS Engineer**   * Struck by vehicle | * Only trained persons permitted to * use vehicles owned or utilised by PHS. * Installation teams to isolate area of install from site traffic. * Engineers advised to remain 3m from moving vehicles and plant. * PPE: Hi-vis clothing (EN471) | 5 | 1 | 5 |  |  |  |  |  |
| **H10** | **Hand operated tools or machinery**   * From working with tools and operating machinery | **PHS Engineer**   * Crush Hazard/ * Traps/nips * Contact with sharp | * Engineers trained in the safe procedure for changing components and use of workplace equipment. * Engineers to ensure guarding is in place prior to energising the machine. * PPE: Safety footwear in line with EN 20345 * Safety gloves in line with EN388 * Safety Glasses Compliant with EN 166 issued and worn by engineers when working with power tools | 3 | 1 | 3 |  |  |  |  |  |
| **H11** | **Confined Spaces** | **PHS Engineer**   * Entrapment * crushing * Loss of consciousness | * Machinery must be isolated and locked off and tagged out as per training. * Specific risks associated with task and location must be considered on PoWRA and mitigation factors considered | 5 | 1 | 5 |  |  |  |  | * RA0019 Confined spaces |
| **H12** | **Irritant Sensitising Substance**   * Oils and lubes | **PHS Engineer**   * Contact with oils and lubes causing skin irritation | * Safety gloves in line with EN388 oil resistant gloves * Refer to H2 * Wash skin thoroughly with soap and water if in contact with oil * Boiler suits provided | 4 | 1 | 4 |  |  |  |  |  |
| **H13** | **Dust/particles**   * Depending on material being compacted/baled dust particles may be present | **PHS Engineers**  **Clients’ Employees**   * Contact with eyes and mucous membrane may cause irritant | * KN95 masks to be worn if dust particles present * Goggles in line with EN166 to be worn to protect the eyes | 2 | 1 | 2 |  |  |  |  |  |
| **H14** | **Ergonomic factors**   * Repetitive * Posture * Stretching | **PHS Engineer**   * Musculoskeletal injuries or disorders | * Regular breaks * Rotation of jobs | 2 | 4 | 8 |  |  |  |  |  |
| **H15** | **Lone working**   * Difficulty gaining assistance in an emergency | **PHS Engineer**   * Less chance of assistance in an emergency | * Please see RA for lone working | 4 | 1 | 4 |  |  |  |  | * RA0016 Lone working |
| **H16** | **Pedestrian movement**   * Pedestrians in area of oil spill | **PHS Engineer**  **Client**  **Employees**  Slipping on contaminated surface | * Warning signs and barriers to be used to cordon off spillage areas * Follow any client site rules | 5 | 1 | 5 |  |  |  |  | * RA009 Oil spillages |
| **H17** | **Stored Energy**   * Heavy components could suddenly fall or move, potentially causing injury or damage to equipment | **PHS Engineer**  **Client**   * Crush injuries * Entrapment | * Potential energy to be released before work commences: * Hydraulic systems de-pressurised, Electrical systems de-energised. * Heavy components to be supported or moved using approved equipment as per method statement | 5 | 1 | 5 |  |  |  |  |  |
| **H18** | **Other - waste in around or stuck in the baler** | **PHS Engineer**   * Weil’s disease from contact with animal faecal matter * Hep B from contamination in waste, typically through absorption or cuts to hands allowing the contamination to the blood stream | * Hep B injection for all engineers (currently under review) * Instruction for customer to clean baler. * Right to challenge for customers who leave waste in baler. * Mechanical safety gloves | 2 | 5 | 10 |  |  |  |  |  |
| **H19** | **Emergency Procedures** | **PHS Engineer**  **Clients Employees** | * Please refer to RA for Emergency Procedures | 5 | 2 | 10 |  |  |  |  | * RA0024 Emergency procedures |
| **H20** | **Access or egress**   * Working on some machinery requires you to work inside of it | **PHS Engineer**  **Clients**  **Employees**  **Members of public**   * Entrapment * Loss of consciousness * Traps/nips | * Point of work risk assessment completed before each task (PoWRA) * Barriers used to protect local area * 2-man job * PPE: bump caps in line with EN812:2012 * Mechanical lifting aids are available via ROC team and should be considered for use ahead of a two-person lift being implemented. | 5 | 1 | 5 |  |  |  |  |  |

**ACTION PLAN**

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| **Task** | **Risk** | **What further action do you need to take to control the risk?** | **By whom** | **Due Date** | **Date Complete** |
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Risk Assessment Sign Off Sheet

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| Site Name |  | Site Manager |  |
| RA Title / Reference No. | RA003 Servicing Machinery | RA Version Number | 1 |
| I have received training as to the hazards relating to the process/area, as outlined in the Risk Assessment and the control measures I should use to work safely. In the event of any queries I am aware I should stop work and speak to my supervisor or line manager. | | | |

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| Name | Signature | Date |
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