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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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 – SeverityL – LikelihoodR - Risk | Detail additional control measures needed to eliminate hazard completely or minimise risk to acceptable level.(Include in Action Plan) | S – SeverityL – LikelihoodR - Risk | Cross Reference & AdditionalInformation 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.
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| **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
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| **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
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| **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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