

SCANIA 124G METAL SPREADER

Mobile Plant Maintenance METAL SPREADER Risk Assessment

Refer to Manufactures General Safety Instructions and Manufacturers Operations Manuals for correct Operations and identification to items and location of risk areas

HAZARD CATEGORY AND EXAMPLES	POTENTIAL HAZARD		WHERE ON THIS PLANT DOES THIS HAZARD EXIST?	PRELIMINARY RISK RATING	CONTROLS	RESIDUAL RISK RATING
	YES	NO				
Mechanical hazards (ie crushing, draw in, entanglement, shearing, friction or impact)						
Nip points: Including parts of plant opening, closing or collapsing. Tooling & equipment used for maintenance.		NO	Potentially all areas while conducting Maintenance or inspections on Plant.	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Fit for purpose tools >PPE	7
In-running rollers/gear sets		NO				
Crushing Entrapment: Plant opening, closing or collapsing. Tooling & equipment used for maintenance.	YES		Potentially all areas while conducting Maintenance or inspections on Plant.	20	>Reference to OEM Operation & Maintenance Manuals >Only Competent Trained personnel to carry out Maintenance >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >Process - Jack and Support Equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Fit for purpose tools >PPE	12
Crushing Entrapment:	YES		While working on Plant powered up under test or trouble shooting	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Jack and Support Equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Fit for purpose tools >PPE	7
Crushing, lacerations and severing of fingers/body parts by heavy objects, components, parts or items under pressure/power	YES		Hydraulic pressing/pushing and jacking equipment Hydraulic power tools, Liquids/gas under pressure, vacuum, elastic energy. Installing guards, aligning machinery components	19	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Stored energy will be identified in Job specific Risk Assessment >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance & operate tooling >PPE	7

Trapping: Between plant and materials or fixed structures	YES		Plant / site / buildings	20	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Enter Mobile Plant Workshop & Facilities >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >SHEWMS >Only Competent Trained VOC'd personnel to Operate Machinery >Decals & warning singe in areas of potential hazard >PPE	7
Body or body parts caught between moving components	YES		Potentially all areas while conducting Maintenance or inspections on Plant.	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Mechanical lock out Mechanical Isolation >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >PPE	7
Entanglement: Body parts, hair, tools, jewellery, clothing.	YES		Potentially all areas while conducting Maintenance or inspections on Plant.	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Guarding provided on machinery where required >PPE	7
Friction due to contact with moving parts, surfaces or materials		NO				
Accumulation of energy inside machinery with accumulators or stored energy	YES		Engine cooling systems, tyres	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Stored energy will be identified in machine specific Risk Assessment >Process - Maintain Accumulator Systems >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Warning signage on all accumulator systems >All systems are to be "vented" prior to performing maintenance on that system. >PPE	7
Unplanned dropping: Implements, components, parts, tooling, equipment used for maintenance.	YES		Potentially all areas while conducting Maintenance or inspections on Plant.	20	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >Process - Jack and Support Equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Fit for purpose tools >PPE	7

Mechanical Hazards – Movement of Plant						
Plant stability, tipping or falling over during jacking operations	YES		Potential when supporting plant on stands	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - >Jack and support equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance & operate tooling	11
Plant tipping or rolling over whilst in transit, being thrown from cab	YES		Tramming / Transporting to & from workshop for maintenance purposes	13	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Process - Traffic Management Plan >FOPS / ROPS (Fall On / Roll Over Protection Structure) installed >Seat belts worn & maintained >Enclosed cabs, keeping windows & doors closed at all times >VMP >Only competent trained, VOC'd personnel to operate Machinery	7
Inability to slow, stop, or immobilise plant	YES		While under testing, directing into workshop area	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Process - Isolation & Tagging (WA) >SHEWMS >Only competent trained, VOC'd personnel to operate Machinery >Fit for purpose tools >Machines serviced and repaired regularly to ensure safe operation >Emergency stops fitted at operator station and ground levels >PPE	7
Normal movement of plant (ie collisions with persons, traffic or objects)	YES		Moving in, around & out of the workshop area, Pedestrian traffic and pedestrian/ vehicle interaction	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Traffic Management Plan >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Only competent trained, VOC'd personnel to operate Machinery >SME Exclusion zones >Perform Plant Pre-Start & Safety Inspections >PPE	7
Uncontrolled or unexpected movement of plant, components or implements or material	YES		When machinery is parked in workshop for repairs / servicing.	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Process - Isolation & Tagging (WA) >SHEWMS >Plant chocked >Energy systems de-energised >Cleaning procedures	6
Unauthorised access and operation	YES		Operator station	19	>Only competent trained, VOC'd personnel to operate Machinery >Disciplinary process >Lockable cabs	3
Damage to surfaces etc caused by plant movement in & around the workshop area	YES		Tyres, plant, undercarriage	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Process - Isolation & Tagging (WA) >SHEWMS >Concrete floors and aprons to be protected from contact using a protection plate/pad/in built rails, heavy duty rubber >Housekeeping, pre washing of floors before plant enters w/s	3
Moving objects due to parts or work pieces breaking (disintegrating),		NO				

Mechanical Hazards – Falling objects / Ejected materials						
Material/Objects falling from working area		NO				
Failure resulting in loss of contents or load		NO				
Falling objects	YES		Potential for objects to fall on lower working areas	17	>Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Footprint of work area cordoned off >Exclusion zones around area where plant maintenance is being undertaken at height >PPE	8
Work pieces/materials ejected	YES		When Jacking	17	>Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >Process - Isolation & Tagging (WA) >Process - Jack and Support Equipment >Footprint of work area cordoned off >PPE	8
Plant or Loads moving/falling due to power loss or plant failure		NO				
Mechanical Hazards / Hazardous events due to						
Overloading of plant		NO				
Inadequate mechanical strength of Plant or parts	YES		Potential in any assembly or supplied items	13	>National Standard for Plant [NOHSC: 1010 (1994) >Any modifications to equipment to follow manage change procedures >Equipment only sourced from reputable suppliers	7
Failure of loading controls		NO				
Inadequate design/selection of pulleys, drums, chains etc		NO				
Abnormal conditions of assembly/testing/use/maintenance	YES		When testing machine	15	>Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Only Competent Trained personnel to carry out Maintenance >Only competent trained, VOC'd personnel to operate Machinery	7
Location of plant in workplace and/or proximity to other hazards (i.e. traffic movt)	YES		Plant	12	>Process - Move & Park Mobile Equipment at the Mobile Plant Workshop	2
Death or serious injury due to uncontrolled tyre handling or inflation	YES		Changing or inflating tyres	19	>Changing of tyres will not happen onsite due to no tyre fitters. >Tyre repairs to be outsourced	1
Inadequate mechanical strength of Tooling	YES		Potentially all tooling being used while conducting maintenance	13	>Reference to OEM Operation & Maintenance Manuals >Only Competent Trained personnel to carry out Maintenance >Process - Inspect & Maintain Tooling >SHEWMS >Only certified and purpose built tooling to be used when undertaking pulling/pushing/lifting tasks on mobile plant	3
Change G.E.T, Cuts, lacerations, manual handling		NO				
Chemical or Biological						
Contact with or inhalation of harmful fluids, gases, mists, vapours, dusts etc	YES		Fuel and hydraulic components, systems when performing mechanical maintenance tasks & inspections		>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Develop Mobile Plant and Equipment Specifications >SHEWMS >MSDS read & understood >Well ventilated workshops, work out doors >Water Cart for dust suppression >Emergency showers and eyewash stations available >PPE	
Pressure						

Contact with fluids or gas under pressure during maintenance	YES		Plant fuel, hydraulic, grease components & systems.	20	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >All systems are to be "vented" prior to performing maintenance on that system. >PPE	8
Striking due to severed high pressure hoses/couplings	YES		High pressure air and hydraulic hoses when performing mechanical maintenance tasks	20	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >All systems are to be "vented" prior to performing maintenance on that system. >PPE	8
Isolation and venting of pressure energy sources	YES		Hydraulic systems	20	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Inspect & Maintain Tooling >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >PPE >All systems are to be "vented" prior to performing maintenance on that system. >PPE	8
Electrical Hazards						
Contact via damaged or poorly maintained electrical leads and cables	YES		Battery box, battery cables, starter motor,	19	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >SHEWMS >Process - Isolation & Tagging (WA) >Machines serviced and repaired regularly to ensure safe operation >Only Competent Trained personnel to carry out Maintenance >PPE	6
Overloading of electrical circuits		NO				
Inability to isolate electrical energy sources	YES		Battery isolator required for all units on site	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Supplier Plant & Vehicle Inspection form >Machines serviced and repaired regularly to ensure safe operation >PPE	2
Contact with overhead power lines	YES		Operators Station	13	>Only Competent Trained personnel to carry out Maintenance >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Traffic Management Plan. >Only competent trained, VOC'd personnel to operate Machinery >Decals & warning singe in areas of potential hazard	11

Stored energy in electrical systems – batteries	YES		Battery box	19	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Decals & warning singe in areas of potential hazard >Battery lid lined with rubber, >Wherever possible use sealed batteries.	11
Thermal						
Exposure to mechanical, pressure, electrical or other energy source due to residual energy stored in system	YES		Radiators, hydraulic, steering & lines	13	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >All systems are to be "vented" prior to performing maintenance on that system >System in place for de-energising store energy >PPE	7
Engulfment, entrapment or damage by fire	YES		Engine compartment,	22	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Secondary escape route >Fire extinguishers AS1851 & AS2444 fitted to all units	11
Exposure to Radiation causing burns	YES		During welding, oxy/acetylene work, Hot compartments	22	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >Process - Manage Welding Requirements and Controls >Process - Oxy - Acetylene Cutting Equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance >AS 4839-2001 : The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes >PPE	11
Liquid Nitrogen		NO				
Explosion / Fire						
Ignition of flammable atmosphere or material by plant, process or materials where there is the potential for the build-up of fuel, rags or rubbish	YES		Engine bay, around exhausts, hydraulic systems	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Fire extinguishers AS1851 & AS2444 fitted to all units >Decals & warning singe in areas of potential hazard >Good housekeeping >Waste disposal in accordance with environmental plan >PPE	7

Ignition of flammable atmosphere or material by plant, process or materials	YES		While using Oxy/acetylene on plant during repairs	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Oxy - Acetylene Cutting Equipment >SHEWMS >Only Competent Trained personnel to carry out Maintenance >AS 4839-2001 : The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes >Fire extinguishers AS1851 & AS2444 fitted to all units >Decals & warning singe in areas of potential hazard >Good housekeeping >PPE	7
Ignition of flammable atmosphere or material caused by spilling of fuel or oil onto hot surfaces whilst servicing plant	YES		Engine bay, around exhausts, hydraulic systems	19	>Reference to OEM Operation & Maintenance Manuals >Safety Essentials >Task Risk Assessment, Observations, Associated tools & permits >Process - Isolation & Tagging (WA) >Process - Refuel Mobile Powered Plant >SHEWMS >Only Competent Trained personnel to carry out Maintenance >Fire extinguishers AS1851 & AS2444 fitted to all units >Decals & warning singe in areas of potential hazard >Good housekeeping >Naked flames including smoking should not permitted with 15 metres of fuel areas >PPE	7
Interference with remote detonation equipment		NO				
Slips/ Trips/ Falls						
Uneven or slippery work or access surfaces on plant, Trip Hazards	YES		Potentially any work area on or around plant where maintenance is undertaken	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >Decals & warning singe in areas of potential hazard >Housekeeping >3 point contact >Hand rails and steps >Tool bags to be used. >Purpose built stands/supports provided	8
Housekeeping hazards produced by the plant	YES		Plant Oil, fluid leaks. Dirt/material hang up.	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >House keeping >Washing of plant before entry to workshop area >Waste disposal processes followed >Drip trays to be placed under leaks. >Leaks to be managed/repared to minimise risk of slips/falls and environmental impact.	8
Inadequate work platforms (size, location, fall protection). Lack of guardrails or fall protection	YES		Machine deck; operators station any area outside designated walkways and access platforms being accessed for plant maintenance	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >Use of purpose built work platforms; >EWP's >Purpose built tooling to minimise at risk behaviours	8

Risk Assessment (Maintenance)

Access (ladders, stairs, walkways) to and from the plant	YES		>Access steps/platform to operators station	19	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >SHEWMS > >Access steps/platform and handrails fitted as per the manufacturer	11
Lack of guardrails or fall protection	YES		Where ever there is a risk of falling from one level to another causing injury or death.	25	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >Decals & warning singe in areas of potential hazard >Work to height requirement at 1.8 mtr, Process - "Height Work (work at)" >Fall Restraint to be used above 1.8 meters >Maintain 3 points of contact, always facing machine >Tool bags to be used >Work Platforms with Handrails, Kick rails. Inspected, checked regularly >Only competent trained personnel to carry out Maintenance >Segregated, isolated, designated flat working area	11
Collapse of the supporting structure (i.e. mobile crane boom, batch plant, tower crane)		NO				

Atmospheric contamination						
Exhaust fumes	YES		Diesel engines operating during troubleshooting & live testing	20	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >Process - Isolation & Tagging (WA) >SHEWMS >Exhaust directs fumes away from the machine >Diesel engines only operate where there is sufficient air >PPE	7
Dust, fibres, vapours	YES		Dirt and debris around machine	12	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits >Safety Essentials >SHEWMS >House keeping >Washing of plant before entry to workshop area >PPE	6
Lack of oxygen		NO				
Confined spaces associated with the plant		NO				
Thermally generated fumes		NO				
Environmental contamination from fumes, mists and solids to atmosphere		NO				
Working environment and ergonomics						
Inadequate lighting levels	YES		Engine bay, under machine	13	>External lighting source, Torches, Headlamps	1
Glare from artificial light or natural light		NO				
Placement and identification of controls	YES		Operator station	19	>Reference to OEM Operation & Maintenance Manuals >Only Competent Trained personnel to carry out Maintenance >Controls in Operator station are all legible and in standard position >Decals & warning singe in areas of potential hazard	1
Seating design or seating location - Poor posture during test drives	YES		Operator station	19	>Reference to OEM Operation & Maintenance Manuals The seating provided is fully adjustable with lumbar support.	6
Poor visibility of work area afforded from control position	YES		Applies in some maintenance operations - Workshop area	20	>Process - Move & Park Mobile Equipment at the Mobile Plant Workshop >Only competent trained, VOC'd personnel to operate Machinery	6
Human error or behaviour aspects (Human factors)	YES		Operator station	20	>Only competent trained, VOC'd personnel to operate Machinery >Only competent Trained personnel to carry out Maintenance	6
Manual handling tasks associated with the plant	YES		Any maintenance task	17	>Task Risk Assessment, Observations, Associated tools & permits >Process - Manual Handling (Hazardous Manual Tasks) >SHEWMS >Only competent Trained personnel to carry out Maintenance	6
Cramped or restricted work spaces (particularly for maintenance)	YES		Engine bay, under machine, under cab, between wheels, rollers, frame	17	>Task Risk Assessment, Observations, Associated tools & permits >Process - Manual Handling (Hazardous Manual Tasks) >Process - Isolation & Tagging (WA) >SHEWMS	7
Noise levels – NIHL (Noise Induced Hearing Loss)		NO	Potentially all areas of mechanical workshop and boilermaker bays when plant maintenance is being undertaken	12	>Process - Noise - Environmental >PPE	6
Noise levels – Interference with communication or speech/hearing	YES		Potentially all areas of mechanical workshop and boilermaker bays when plant maintenance is being undertaken	13	>Process - Noise - Environmental >PPE >Line of sight to be maintained	1
Vibration		NO				
Rain or moisture	YES		While working on the out side of plant.	17	>Task Risk Assessment, Observations, Associated tools & permits >SHEWMS >Where rain or moisture causes an unsafe work place, work will cease till area is dry or safe	7
Radiation (ionising – non ionising)		NO				
Temperature extremes						

Open flame, steam or heated air	YES		Oxy / Acetylene use as part of plant maintenance	17	>Task Risk Assessment, Observations, Associated tools & permits >SHEWMS >Process - Oxy - Acetylene Cutting Equipment >Process - Hot Work Permit >PPE	6
Exposure to high or low temperature extremes (thermal comfort)	YES		Open work areas while performing maintenance	13	>Task Risk Assessment, Observations, Associated tools & permits >SHEWMS >PPE	6
Exposure to high or low temperature extremes	YES		Engine	13	>Task Risk Assessment, Observations, Associated tools & permits >SHEWMS	6
Condition and suitability of plant						
Age and condition	YES		Plant	19	>National Standard for Plant [NOHSC: 1010 (1994)] >Year of Manufacture 2006 >Process - Perform Plant Pre-Start & Safety Inspections >Process - Inspect plant, vehicles and equipment >Plant serviced as per manufactures requirements and project schedule	11
Poor Service and maintenance history	YES		Plant	19	>Process - Perform Plant Pre-Start & Safety Inspections >Process - Inspect plant, vehicles and equipment >Plant serviced as per manufactures requirements and project schedule	11
Frequency of use (high or low use or inappropriate duty cycle)		NO				
Not fit for purpose OR Unsuitable accessories/fittings		NO				
Inability to apply isolation/lock out devices	YES		Plant	21	Isolation fitted as per site requirements	6
Accessories in unsafe condition		NO				
Use in arduous environment		NO				
Modification from original design	YES		Potentially all areas of plant	19	Change Management undertaken to cover any modifications	6
System of work relating to the plant						
Emergency procedures relating to the plant	YES		Plant	21	>Reference to OEM Operation & Maintenance Manuals >Emergency Preparedness and Response	7
Use of Permit to Work system	YES		Carrying out maintenance on plant	13	>Task Risk Assessment, Observations, Associated tools & permits >SHEWMS >Process - Permit to work >Only competent trained, VOC'd personnel to operate Machinery >Machine maintenance to be carried out off site	7
Communication systems associated with plant operation	YES		Operator station / Workshop	8	>Process - Radio Usage and Communication >Verbal communication permissible	2
Communication methods with plant operation		NO				
Start up and shut down procedures	YES		Plant	12	>Reference to OEM Operation & Maintenance Manuals >Only competent trained, VOC'd personnel to operate Machinery >Only Competent Trained personnel to carry out Maintenance	2
Storage or restoration to service requirements		NO				
Secure against unauthorised use/access	YES		Operator station / plant	12	>Only competent trained, VOC'd personnel to operate Machinery >Only Competent Trained personnel to carry out Maintenance >Remove key >disciplinary process	1
Other						
Refuelling	YES		Plant	25	>Reference to OEM Operation & Maintenance Manuals >Task Risk Assessment, Observations, Associated tools & permits > Process - Refuel mobile powered plant >SHEWMS	12
Tyre changing	YES		Plant	20	>Changing of tyres will not happen onsite due to no tyre fitters. >Tyre repairs to be outsourced	1