

Task Control Sheet



**Working with On Track Machines
Rail Grinding & Support Teams**

**RCS No: TCS006
Issue: 1**

<p>Key Risks!</p>	<ul style="list-style-type: none"> Grinding in Possessions Grinding in Tunnels Fire Grinding in Electrified areas Working in the vicinity of OHL Noise/ Dust / Fumes 	<p>Personnel Involved</p>	E&P	✓
	S&T		✓	
	Track		✓	
	Off Track		✓	
	Property			

Plant / Engineering train	Rail Grinding & support teams	Harsco Train, Ground Support, Grinding Teams
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Key Risks	Controls	Implemented By
Struck by train	<ul style="list-style-type: none"> All staff shall access the track in accordance with their duties and in accordance with all modules of the Railway Group Standard GE/RT8000 Rule Book The visitor shall be briefed on the SWP and accompany the COSS / SWL at all times (RS/502 COSS / SWL Handbook 10.2) Use authorised walking routes where available Only access and egress the track through authorised access points. All Controllers of Site Safety shall provide a site specific briefing on all hazards, the safe system of work, including the position of safety and access to and from the worksite. Wear high visibility clothing worn at all times in accordance with the Network Rail Personal Protective Equipment Policy When walking to and from worksites face oncoming traffic wherever possible ES shall confirm that prior to them starting work the OTM Operator receives an appropriate safety brief for their role and activities within the worksite. 	Line Manager / All staff/ COSS/ Team Leader / ES
Walking & working in darkness / tunnels	<ul style="list-style-type: none"> All employees shall be provided with personal lighting e.g. torch or headlamp when working in darkness or tunnels All worksites shall be provided with suitable temporary or permanent lighting The COSS / SWL shall brief all staff on hazards of working in darkness / tunnels and check that appropriate controls are in place Where loading / unloading road vehicles or performing other tasks on the road then lights on vehicles shall be used and other suitable barriers, lighting put in place Keep tools and materials clear of walking routes, walkways, refuges or recesses 	All staff
Level Crossing Failure	<ul style="list-style-type: none"> Communication between Route Conductor, Machine driver, Signaller & PICOP Via Mobile phone or face to face 	Signaller /level Crossing Attendant COSS / PICOP / Grinding machine supervisor
Grinding on track & in possessions	<ul style="list-style-type: none"> Spark guards shall be used Grind stone inspection procedure Remove 'sharks teeth' to reduce build-up of grinding slag 	Grinding machine operators / supervisor

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	<ul style="list-style-type: none"> •Deploy a spill kit in the event of failure •Operation shall be in accordance with GE/RT8000 Rule Book, SRO Procedures and site instructions received from the COSS / SWL as per SWP procedure. •Carry out work in accordance with Section T of the Rule Book •Pre-inspect equipment including checking against date on tag 	Instructed by COSS/ SWL / PICOP & ES
Grinding in Tunnels	<ul style="list-style-type: none"> •Use water spray bars, water cannon •A pre-grinding risk assessment shall be carried out •COSS / SWL shall brief all staff on the SWP for the work within the tunnel including the limited of the exclusion zone. •A Risk Assessment shall be undertaken to assess air flow in the tunnel versus the production of dust and fumes by the machine. Where appropriate ventilation shall be provided. •Egress - A Risk Assessment shall be undertaken for emergency evacuation in the event of an emergency such as fire or injury. •Risk Assessment shall be undertaken as to the proximity of the work to Electrical Conductors and isolations taken as appropriate. •Working in tunnel risk assessment should be provided within the SWP pack. If not, Grinder Machine Operators shall complete using Harsco document before starting work. Work shall not commence until Machine Operator is completely satisfied with tunnel risk assessment is fit for purpose. 	COSS / SWL / Grinding machine operators / supervisor
Manual Handling	<ul style="list-style-type: none"> •Staff are trained and informed on manual handling techniques •Manual handling risk assessments shall be undertaken for all manual handling activities. •Rotate staff to reduce manual handling activities and give them frequent breaks •Gloves shall be worn •Use of metatarsal protection shall be considered to protect feet when moving heavy objects 	All staff
Fire – on the infrastructure	<ul style="list-style-type: none"> •Comply with risk assessments highlighted within the SWP Pack. •Spark guards shall be deployed. •Spark blankets shall be maintained. •Site shall be cleared of flammable material prior to work commencing. •Grinders shall be rotated accordingly so as to direct all sparks to the 4ft. •Damp down of vegetation and line side equipment whilst grinding, maintain water suppression equipment. •Train staff on the use of the water cannon. •Stop grinding if the possibility of fire is identified. •Communication procedures in accordance with the Rule Book shall be maintained at all times •Once minimum level of water for grinding is reached, grinding shall stop. •Rear cab fire marshal shall remain vigilant for fires or potential fires and stop grinding and attempt to extinguish fire with cannon or hand held fire extinguishers. •Ground support staff shall be present with fire aids 	Machine Operators
Fire – Decanting fuel and refuelling small plant	<ul style="list-style-type: none"> •Carry all fuel in suitable containers of the appropriate colour and/or marked with contents •Secure all fuel before transporting •Only carry the minimum amount of fuel you need for the planned activity •Check that appropriate size spill kits and a 2kg Dry Powder fire extinguisher are available when transporting fuels. •Decanting: 	GSM Rail Grinding Supervisor / Operators

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	<ul style="list-style-type: none"> •Decanting and fuelling of plant shall only be performed by competent persons •Wear eye protection (goggles) to BS EN 166.B when fuelling / decanting fuel. •Wear good fitting impervious (PVC, Nitrile, or similar) gloves. •Remove gloves at the end of fuelling / decanting and dispose of in approved waste containers •If fuel is splashed / spilled onto clothing the clothing shall be removed and replaced and the skin cleaned. •Wash hands before smoking, eating or drinking – If hand washing facilities are not immediately available use antibacterial hand rubs or wipes. •Where possible refuel all plant at the depot, rather than on site. •Wear personal protective equipment, as detailed in the COSHH risk assessments for fuel. •Undertake a pre-use check of plant to check that there are no leakages, that the fuel cap fits correctly and that the seal is fitted •During hours of darkness check that suitable lighting is available – •DO NOT use naked flames •Refuel all plant at least 10 meters from any worksite, other machines or naked flames – Take the plant to the fuelling point and not the fuel to the plant •Smoking is not permitted within 10 meters of plant or fuelling points •Make a fire extinguisher available at all fuelling points •Before fuelling small plant check that it has cooled down significantly •Slowly release the pressure with the fuel cap on the plant as hot fuel may be released under pressure •Decant / Re-fuel machines from the container using a flexible spout or funnel – DO NOT fill / decant direct from the container •Avoid spilling any fuel over the machine / container, if spilling occurs wipe off the excess fuel •dispose of any rags as hazardous waste and check that they are kept apart from any ignition sources •leave the machine for approximately two minutes before starting it up •Check that the seal is in place and the fuel cap has been replaced and tightened correctly before starting the plant. •Check that the fuel container cap has been replaced and tightened. 	
<p>Fire – on the grinding machine or in Tunnel</p>	<ul style="list-style-type: none"> •Comply with risk assessments highlighted within the SWP Pack. •Machine specific fire suppression systems to be maintained and documented. •Fire extinguishers to be routinely checked during works. •Communication procedures in accordance with the Rule Book are to be maintained at all times. •All combustible materials are to be stored in the correct manner and protected from heat or sparks. •CoSHH items also stored in accordance with the MSDS. •Network Rail No Smoking Policy to be adhered to. •Strict maintenance regime of hydraulic, fuel Regular Fire Drills •Head and hand held Torches maintained at all times, •Tunnel Risk assessment to be applied. Request for removal of unneeded obstacles. •SPML machines to carry out specific pre tunnel grinding preparation •All lines in tunnel bore blocked to traffic •PIC to maintain safe area around the Grinder 	<p>PIC / Rail Grinder Supervisor / Operators</p>
<p>Grinding in Electrified Areas</p>	<ul style="list-style-type: none"> •Personal Tract Safety (PTS) Certificate to include DC/AC Electrified Lines. •SWP Pack to be adhered to. 	<p>COSS / SWL</p>

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	<ul style="list-style-type: none"> •COSS / SWL / DP Brief to be complied with. •Compliance with the Operational Brief •Transiting, working moves and grinding on OLE electrified lines •Compliance with the Rule Book GE/RT8000/AC-DC. •Fire Fighting Training for <ul style="list-style-type: none"> • all Operational Rail Grinding Staff. •Regular Fire Drills are to be carried out and documented •Vertical movement of the cannon is to be regularly checked •Staff must be competent in the Communication procedures to the Signaller and ECO to switch power off •Strictly controlled and monitored settings of a maximum field angle on third rail that must not exceed -13°. •Lifting of the carriages if equipment gaps are found to be inadequate. •Operated under T3 with a B3 isolation. •Transiting, working moves and grinding on D.C electrified lines 	
Noise	<ul style="list-style-type: none"> •Correct use of authorised PPE, including approved and appropriate hearing protection to standard BS EN 352. •Observation of the agreed Exclusion zone. 	All Staff
Vibration	<ul style="list-style-type: none"> •Staff rotation to reduce exposure and include rest periods •Use of gloves to keep hands warm & dry •Do not bridge anti vibration handles 	Grinding supervisor
Diesel Fumes	<ul style="list-style-type: none"> •Exclusion zones around equipment of 3 metres for staff not working on the machine 	COSS / SWL
Dust Exposure	<ul style="list-style-type: none"> •RPE to be used as required as per risk assessment / task risk control sheet •Extraction to be used where available •Where ballast is disturbed staff shall wear dust masks and eye protection •Excessive dust to be reported to the machine operator via the COSS / SWL •Dampen down work site, if possible, to reduce dust levels •Users shall wear dust mask to EN149 	COSS / Grinding machine supervisor
Laser Operation	<ul style="list-style-type: none"> •Lasers on machines shall be screened / shielded. 	Machine Operator/Driver
Legionella	<ul style="list-style-type: none"> •Tanks to be emptied and refilled with fresh water daily •Precautions to be taken when atomising water •If water has been stagnant in the heat water is to be dropped and refilled. 	Harsco engineer
Chemical spills	<ul style="list-style-type: none"> •Spill kits to be carried and deployed •Emergency plan to be contained on Safe System of Work •Spill kit training undertaken by all Operators 	Grinding machine supervisor / COSS / SWL
Slips, Trips & Falls	<ul style="list-style-type: none"> •Grated steps on machine •Use of appropriate & maintained footwear •Handrails for access & alighting to be used at all times 	COSS Brief / All staff
Burns	<ul style="list-style-type: none"> •Avoid contact with hot equipment in particular the exhaust •Flame retardant clothing to be worn 	Grinding staff
Points Movements	<ul style="list-style-type: none"> •Signalling Technician (S&T) to liaise with COSS / SWL/PIC & Machine crew on all movements through locally controlled S&C. S&T and Harsco Crew member to walk through all S&C to confirm route is set prior to movements being carried out 	Harsco Grinding staff / supervisor NRL assure points settings

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PPE Required by NR / Maintenance Policy



Wear Head Protection



Wear Foot Protection



Wear Hi Visibility Clothing



Wear Safety glasses to BS EN166.F

If safety glasses introduce a risk (ie weather conditions) then the Team Leader shall assess the risk. The outcome of the assessment shall be recorded on the SWP's pack and safety glasses may be removed. **This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.**

Additional PPE Required by Task Risk Control Sheet



Wear Face fitted FFP3 RPE



Wear hearing protection



Wear Hand Protection suitable to the task



Wear Flame Retardant Protection BS EN 531