

Task Risk Control Sheet

Driving and Operating a Flash Butt Welding Road / Rail Machine

RCS No: NR/L3/MTC/RCS0216/MP16
Issue: 3

 Key Risks !	<ul style="list-style-type: none"> Struck by Train (2) Electrocution (9) Striking objects, etc On / Off Tracking Sparks / Fire Hot surfaces / materials 	Personnel Involved	E&P	✓
			S&T	✓
			Track	✓
			Off Track	✓
			Property	

Tools / Equipment None

Plant Flash Butt Welding Road / Rail Machine

Key Risks	Controls	Implemented By
Key Use & Control of OTP	<ul style="list-style-type: none"> See Risk Control Sheet NR/L3/MTC/RCS0216/MP01 - Use and Control of OTP 1, 2, and 9 	
On / Off Tracking including: <ul style="list-style-type: none"> Derailment Unstable ground Striking people Surface cables 	<ul style="list-style-type: none"> Whilst on and off tracking all staff not required for task shall be moved to a position of safety Flash Butt Welding Road / Rail Machine shall be on and off tracked on level track or on a cant allowed by the Engineering Acceptance Certificate An exclusion zone of shall be created and maintained during on and off-tracking 	All Staff / COSS / Team Leader / Machine Controller
Driving vehicle in possession / worksite including: <ul style="list-style-type: none"> Collisions with people, obstructions, infrastructure Derailment Unauthorised movements Brake failure 	<ul style="list-style-type: none"> An exclusion zone shall be created and maintained around the Flash Butt Welding Road / Rail Machine when being driven or in use and all staff working in the vicinity briefed on its operations No-one shall be allowed within 20 metres in front or behind the vehicle when movements take place 	Machine controller / operator
Setting up welding machine including: <ul style="list-style-type: none"> Striking people, obstructions, etc Noise Failure of lifting arm Unauthorised movement 	<ul style="list-style-type: none"> Access to the machine shall be restricted to authorised persons only with an exclusion zone of 20 metres created and maintained – All staff working within the vicinity shall be briefed on the requirements The machine controls shall be isolated when not in use or unattended 	Machine controller / operator / welding supervisor

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Key Risks	Controls	Implemented By
Welding Operations including: <ul style="list-style-type: none"> Noise Sparks – Fire Burns from hot surfaces Fumes and Dust 	<ul style="list-style-type: none"> Access to the area where work is being undertaken by the flash butt welder shall be restricted to authorised persons only with an exclusion zone of 20 metres created and maintained – All staff working within the vicinity shall be briefed on the requirements Clean the area where welding is to be done of any debris and oil or grease deposits before welding Flammable products shall be kept away from sparks Fire fighting equipment (9kg powder fire extinguisher) shall be provided Welding screens shall be provided and used to contain sparks Personal protective equipment, such as welding gloves, flame retardant overalls and spats shall be worn 	Machine controller / operator / welding supervisor
Cleaning built up slag from welding head including: <ul style="list-style-type: none"> Contact with welding head Burns Ejected hot particles 	<ul style="list-style-type: none"> Only authorised, trained and competent persons shall access the welding head Personal protective equipment, such as welding gloves, flame retardant overalls spats and face shield shall be worn An appropriate tool shall be used for cleaning off built up slag – Do not use hands to remove hot slag 	Machine controller / operator / welding supervisor
Working under Flash Butt Welding Road / Rail Machine	<ul style="list-style-type: none"> Prior to working under the Flash Butt Welding Road / Rail Machine the wheels shall be scotched Work shall only be performed when the Flash Butt Welding Road / Rail Machine is on a level gradient with the hand brake applied 	Operator / Maintenance staff
Fault finding including electricity	<ul style="list-style-type: none"> Faults shall only be rectified by a trained and competent fitter Access to electrical equipment shall only be by a trained and competent fitter 	Operator / Maintenance staff
LONE WORKING IS NOT PERMITTED WITH THIS MACHINE		

PPE Required by NR / Maintenance Policy

 Wear Head Protection	 Wear Foot Protection	 Wear Hi Visibility Clothing	 Wear Safety glasses to BS EN 166.F	<p>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 SSOWPS pack and safety glasses may be removed.</p> <p>This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.</p>
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Additional PPE Required by Task Risk Control Sheet

 Wear Hand Protection	 Wear Face Shield	 Use Welding Mask	 Wear Flame Retardant Protection			
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