Signalling Like for Like Renewal Work Instruction			WO No. Page 1 of 2
Scope:			**Date:**
Team Leader:		**Trainstop Type:**	
Activity:	**TRAINSTOP LIKE FOR LIKE RENEWAL**		
Reference: PR S 40010, PR S 40011			

Activity No.	Task No.	WORK DESCRIPTION	Completed Name/Sign
		APPARATUS INSPECTION & PREPARATION	
1	**1A**	Ensure the new trainstop is of correct type and configuration in accordance with the specific design and compare to the existing trainstop. Ensure trip-arm face is painted white. Ensure VNR/VRR contacts centre when trip-arm is disengaged from detector-arm.	
	1B	Bell test and wire/null count internal wiring (essentially the VNR & VRR circuits) of the new trainstop, compare to the specific circuit design and existing trainstop. Include a correlation of connected links and bridges to the circuit book. Visually inspect and insulation test the internal wiring.	
2	**2A**	On the existing trainstop, wire/null count the incoming terminals, including bridges and links and identify tail cable core numbers on the terminals and compare to specific circuit diagram.	
	2B	Document the disconnections on attached circuit diagram.	
	2C	Conduct an apparatus inspection of the condition of the existing trainstop sleeper fixing arrangements, protection ramps, and cable/air supply. Prepare to replace as required.	
		SAFEWORKING & DISCONNECTION FROM INTERLOCKING	
3	**3A**	Ensure associated signal and trainstop are booked out of use in accordance with PR S 40008.	
	3B	Disconnect the associated signal and trainstop in accordance with PR S 40009 – Disconnection of Signalling Apparatus.	
		DISCONNECTION, REMOVAL AND INSTALLATION	
4	**4A**	Open links in location for trainstop tail cables (and turn off air supply valve to trainstop if applicable).	
	4B	Disconnect cables (and airline if applicable) from trainstop, protect ends and withdraw clear.	
	4C	Remove trainstop and renew any defective sleeper fixing material.	
5	**5A**	Install new trainstop. Lubricate detector-arm.	
6	**6A**	Inspect the tail cables (and airline if applicable) for signs of damage. Conduct an insulation test of the tail cables and record on circuit diagrams.	
	6B	Connect the cables (and airline if applicable) in accordance with previously correlated circuit diagram.	
	6C	Ensure the installation is physically correct. Ensure all bolts and nuts are appropriately fastened.	

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		APPARATUS ADJUSTMENT	
7	**7A**	Adjust as necessary, the trip-arm, safety latch and limit switch for correct operation.	
	7B	Adjust as necessary, the VNR/VRR contacts to correctly open and close when the trip-arm is operated. Check that the Normal contacts do not open when the trip-arm is manually suppressed against the safety latch.	
	7C	Ensure lubricating oil, automatic feeder and hydraulic levels are correct, if applicable.	
	7D	Close all associated terminal links in location (and reopen the air valve if applicable) and operate trainstop under power and confirm correct operation. Ensure no air leaks (if applicable).	
		CERTIFICATION	
8	**8A**	Wire count all terminals with incoming tail cable installation to circuit diagram (NB: links to be counted as wire). Record on circuit diagram.	
9	**9A**	Ensure trainstop is correct to gauge.	
10	**10A**	With the trainstop Normal, operate the trainstop Normal contacts or contact device and ensure VNR is de-energised and energised accordingly.	
	10B	With the trainstop Reverse, operate the trainstop Reverse contacts or contact device and ensure VRR is de-energised and energised accordingly.	
11	**11A**	Arrange the signaller to conduct a functional test of the trainstop in conjunction with the associated signal. Ensure the trainstop is secure.	
	11B	Complete the return PR S 40017 FM01.	
	11C	Book signal and trainstop back into use.	

I certify _____ trainstop at _____ location has been inspected and tested and is fit for service.

_____ _____
Print Name Position

_____ _____/_____/_____
Signature Date