

## PR S 40011 FM06 Electrical Detector – Like For Like Renewal

Work Ir	struct	ion	WO No.				
				Date:			
Scope:							
Team Lea	der:		Detector Type:				
Activity:		Electrical Detector Like For Like Renewal					
		(includes separate detectors and internal det	tector contact blocks)				
<b>Reference:</b> PR S 40010, PR S 40011							
Activity No.	Task No.	Work Description	Completed Name/Sign				
		APPARATUS INSPECTION & PREPARATI					
1	1A	Ensure the new detector is of correct type ar specific design and compare to the existing of					
2	2A	Confirm the Normal position of points.					
	2B	On the existing detector, wire/null count the links and identify tail cable core numbers on circuit diagram.					
	2C	Document the disconnections on attached ci					
	2D	Conduct an apparatus inspection of the condurangements, rodding* and associated med as required.					
		SAFEWORKING & DISCONNECTION FROM INTERLOCKING					
3	Because affected signalling apparatus is booked out of use in accordance with PR S 40008. Obtain authorisation for any temporary bridging in accordance with PR S 40002 as necessary.						
	3B	Disconnect the affected signalling apparatus PR S 40009 – Disconnection of Signalling A	in accordance with				
	3C	If applicable, apply temporary bridging in acc					
		Test bridging and any contacts remaining in					
		DISCONNECTION, REMOVAL AND INSTA					
4	4A	Open links in location for detector tail cable.					
	4B	Disconnect cable in detector, protect ends a	nd withdraw clear.				
	4C	Remove detector and renew any defective fi	xing material, rodding*,	etc.			
5	5A	Install new detector. Lubricate as required*.					
6	6 6A* Inspect the tail cable for signs of damage. Conduct an insulation test of the tail cable and record on circuit diagram.			st of the tail cable			
	6B	Connect the cable in accordance with previous	usly correlated circuit o	liagram.			
	6C	Ensure the installation is physically correct. I fastened.	Ensure all bolts and nut	s are appropriately			
		APPARATUS ADJUSTMENT					
7	7A	Adjust detection for correct operation and adjustment.					

<sup>\*</sup>Not required for a single encapsulated contact block change.

Activity No.	Task No.	Work Description			Completed Name/Sign
		CERTIFICATION			
8	8A	Wire count all termin links to be counted a			
9	9A	Close all associated applicable).			
10B Corpos Rev Rev		Conduct a Points Correspondence Test Normal - Operate points to the Normal position and open each contact in the Normal detection circuit in turn and ensure Normal detection is lost and restored. Remove and replace EOL*/ESML* and ensure Normal detection is lost and restored.  Each contact# tested during the correspondence test shall be observed to "open" when the points are operated to the Reverse position. (# denotes not required for			
		encapsulated contacts which are back-proved in the opposite position.)  Conduct a Points Correspondence Test Reverse - Operate the points to the Reverse position and open each contact in the Reverse detection circuit in turn and ensure Reverse detection is lost and restored. Remove and replace EOL*/ESML* and ensure Reverse detection is lost and restored.  Each contact# tested during the correspondence test shall be observed to "open" when the points are operated to the Normal position. (# denotes not required for			
	10C*	encapsulated contacts which are back-proved in the opposite position.)  Conduct an Out of Correspondence test of the following combinations and ensure no detection.  Note: The following combinations only apply for an existing double-ended layout.  A Signal Engineer shall be consulted if the layout consists of more than two ends.			
Out	of	Operate points to Normal (both ends Normal)			
correspo	ndence	A end Operate points lever B end			
test for e		hold Normal	Reverse	Reverse	
layout		B end	Operate points lever	A end	
		hold Reverse	Normal (ensure NWR is energised	l) Normal	
		Operate points to Reverse (both ends Reverse)			
		A end	Operate points lever	B end	
		hold Reverse	Normal	Normal	
		B end hold Normal	Operate points lever Reverse (ensure RWR is energised	A end d) Reverse	
11	11A	Certify the detector is correct to gauge Normal & Reverse, including open switch detection (e.g. EP Claw Lock).			
12	12A	Arrange for the signaller to check the operation of the points, signals and indications associated with the apparatus. Ensure the detector is secure.			
	12B	Complete the return and applicable point history card.			
	12C	Book affected signalling apparatus back into use.			
I certify points at location have been inspected and tested and are fit for service.					
F	Print Name Position  Signature Date				
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