PR S 40011 FM14





Work I	nstruc	tion	WO No.:	
			Date:	
Scope:				
Team Lea	der:	Type:		
Activity:		Pedestrian Swing Gate Mechanism Like for Like Renewal		
Referenc	e:	PR S 40002, PR S 40008, PR S 40009, PR S 40010, PR S 40011		
Activity No.	Task No.	Work Description		Completed Name/Sign
		APPARATUS INSPECTION & PREPARATION		
1	1A	Ensure the new Pedestrian Swing Gate mechanism is of correct Inspect the equipment type and the configuration are in accord- specific design and compare to the existing Pedestrian Swing G	ance with the	
	1B	Bell test and wire/null count the internal wiring of the new Pede mechanism and compare to the specific circuit design and exist Swing Gate mechanism. Include a correlation of connected links the circuit book. Visually inspect and insulation test the internal Pedestrian Swing gate mechanism. Ensure that circuit controlled the correct position as per the specific circuit design	ing Pedestrian s and bridges to wiring of the new	
2	2A	On the existing Pedestrian Swing Gate mechanism, wire/null co terminals, including bridges, links and identify cable numbers o 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 fixings	g drive point	
		SAFEWORKING & DISCONNECTION FROM INTERLOCKING		
3	3A	Switch the Cerberus monitor to "maintenance mode" to prevent alarms. Advise ICON Infrastructure of the intended work	-	
	3B	Ensure the level crossing and affected signalling equipment is I in accordance with PR S 40008. If temporary bridging is require authorisation for temporary bridging in accordance with PR S 40008.	d, obtain	
	3C	Disconnect the level crossing and affected signalling equipmen with PR S 40009. Note: The Pedestrian Swing Gate shall not to be tied open	t in accordance	
	3D	If applicable, apply temporary bridging in accordance with the at Test bridging in accordance with PR S 40002 to ensure the bridging that any contacts remaining in the circuit are functional		
		DISCONNECTION, REMOVAL AND INSTALLATION		
4	4A	Open links in location for the Pedestrian Swing Gate mechanisn	n tail cable/s	
	4B	Disconnect cable/s in the Pedestrian Swing Gate mechanism, previous vithdraw clear		
	4C	Disconnect the Pedestrian Swing Gate linkage arm and mountir remove the mechanism		
5	5A	Install the new Pedestrian Swing Gate mechanism, connect link connect all securing nuts, bolts and split pins		
6	6A	Connect all cables in accordance with previously correlated circ	cuit diagram.	
	6B	Inspect the cable/s for any signs of damage. Conduct an insulat cable/s and record on circuit diagrams		
7	7A	Lubricate the Pedestrian Swing Gate hinges to ensure reliable of	pperation	
		ADJUSTMENT		
8	8A	Conduct a safety, security and reliability inspection of the fixing parallel locking bush set screws, linkage arms, nuts, bolts and s linkages are clear of adjacent fencing		

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NSW GOVERNMENT

Pedestrian Swing Gate Mechanism - Like for Like Renewal

9	8B 9A	CERTIFICATION Make any adjustments necessary to the Pedestrian Swing Gate mechanism drive, return spring, linkage arms and motor cut out to enable gate to become operational Close all associated terminal links in the location and if applicable, remove any	
		return spring, linkage arms and motor cut out to enable gate to become operational	
	9A	Close all associated terminal links in the location and if applicable remove any	
10		temporary bridging. Note: The testing that ensures temporary bridges are removed are done in steps	
10		10 and 12, as part of the overall wire/null count and correspondence testing	
	10A	Conduct a wire/null count on all terminals with incoming tail cable/s installation to circuit diagram. (NB: links to be counted as wire). Record on circuit diagram	
11	11A	Conduct a power test of the Pedestrian Swing Gate mechanism operation with the return spring disconnected; check the gate will open and close correctly from the fully open and closed positions. Adjust if required. Reinstate the return spring.	
		Ensure the Pedestrian Swing Gate operates correctly with smooth, noise-free motion from the motor/gearbox. Ensure there is no hesitation of the gate movement to close when activated. Ensure motor power has reduced when the gate is in either the fully opened or closed position	
	11B	Test the indexed coupling by forcing the Pedestrian Swing Gate toward the closed position (from the fully open position) until the coupling produces a clicking noise. Release the swing gate and ensure it returns to the pre-set position	
	11C	Test the operation of the Pedestrian Swing Gate mechanism return spring, by ensuring the swing gate fully closes after the removal of power from the motor. Repeat test from 10 degrees of the fully closed position	
	11D	Ensure the Pedestrian Swing Gate when fully closed, cannot be forced open easily.	
12	12A	Conduct a correspondence test of the Pedestrian Swing Gate Normal detection (XNR) where applicable. Operate all gates to the closed position and open each gate in turn to ensure the XNR relay de-energises and restores. Observe the relevant contact to ensure it is of the correct type (N/O or N/C) and opens and closes correctly.	
		Note: The above test incorporates the out of correspondence test for each corresponding pedestrian swing gate (Sydney-side and Country-side)	
	12B	Conduct a correspondence test of the Pedestrian Swing Gate Reverse detection (XRR) where applicable. Operate all gates to the open position and close each gate in turn to ensure the XRR relay de-energises and restores. Observe the relevant contact to ensure it is of the correct type (N/O or N/C) and opens and closes correctly	
		Note: The above test incorporates the out of correspondence test for each corresponding pedestrian swing gate (Sydney-side and Country-side)	
13	13A	Ensure the tone generator DIP switch settings are correctly set.	
		Ensure correct operation of the tone generator. Observe the relevant contact to ensure it is of the correct type (N/O or N/C) and opens and closes correctly	
	13B	Ensure correct operation of red-man light indication. Observe the relevant contact to ensure it is of the correct type (N/O or N/C) and opens and closes correctly	
14	14A	Ensure that any alarms raised with Cerberus monitor are cleared. Switch Cerberus monitor out of "maintenance mode"	
15	15A	Arrange with the signaller to conduct an operational test of the affected signalling equipment in association with the level crossing protection equipment. Ensure the Pedestrian Swing Gate mechanism is secure	
	15B	Book the level crossing and affected signalling equipment back into use.	

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Engineering System Integrity

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I certify that the	Side Pedestrian Swing Gate mechanism at
	as been correctly reinstated, inspected, tested and is fit for service.
Level Crossing location ha	as been correctly remistated, inspected, tested and is nit for service.
Level Crossing location ha	as been confectly remstated, inspected, tested and is fit for service.
Level Crossing location ha	Position