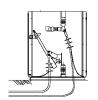
DISTRIBUTION COMMISSIONING FORM (DCF) 4.6 – High Voltage Single Phase Underground Rural Supply Fuse Switch



Purpose: This instruction covers the testing and commissioning of all replacements or new installations of single phase underground rural supply fuse switches before energisation.

For more information refer to the Distribution Commissioning Forms Guideline (EDM 34137510)

Notes: The following test must be carried out after installation and before the switch is put into service.

Address/Pole No.		
Work Package No.	SPIDAWeb Pick ID:	

1. Pre-Installation Checks

Earth resistance test	Ensure that the earth resistance test (DCF 4.1) has been completed with	
and nameplate	acceptable results ($<$ 30 Ω) prior to commissioning.	
Cable testing	Ensure that the cable Distribution Commissioning Form 2.1 (EDM 21540116 HV	
	XLPE cables) has been completed with acceptable results	

2. Installation Check

Install a switch with blades and contacts de-energised and operate for a functional test.	Operate the switch and ensure that it operates ON and OFF smoothly and that contacts are fully seated in the ON position and check fuse size. (Adjust if necessary.)	
	Check that the construction complies with the distribution construction, labelling standards and applicable design drawings.	
Construction checks	Check the cables are properly connected and terminated.	
	Ensure that the switch body is properly earthed and secured.	

3. Insulation Resistance Test

	Test Connection	Expected Values	Test Results
With the unit in the OFF position, use a 5 kV insulation resistance tester for 1 minute Values greater than 5000 M Ω are acceptable.	Phase – Earth (Incoming side)	> 5,000 MΩ	ΜΩ
	Phase – Frame (Incoming side)	> 5,000 MΩ	ΜΩ
	Phase – Earth (Exiting side)	> 5,000 MΩ	ΜΩ
	Phase – Frame (Exiting side)	> 5,000 MΩ	ΜΩ

4. Energisation

4. Lifeigisation		
Energisation	Ensure the switch is in the correct position (ON or OFF) as per the switching program and network configuration.	
	Fit a Perspex cover and lock the unit door with a Distribution Switching (WPC) padlock.	
	Energise the switch from the remote end of the incoming cable.	
	Check for any signs of abnormality.	



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5. Handover of Responsibility

I hereby certify that items 1 to 4 have been completed with satisfactory results and transfer control to the			
network operating authority.			
Commissioned by		NAC	
Signature		Date & Time	

- 1. Ensure the work area is left tidy with no hazards to the public.
- 2. Hand over responsibility to the operating authority.
- 3. The completed form must be returned to the project file/work pack.

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