



NOTE: SAFET	Tests must be carried out after the installation, alteration or repair and before putting back to service. At all times maintain suitable clearance to all other electrical equipment and verify planned escape routes. In preparation for the tests, wherever possible, disconnect the conductors from the equipment on both sides and make the area safe.											
DATE:				Project No.		Name of Office	er					
Pole Mounted Recloser Location:			tion:									
1. PO	LE MOUNTE	O RECLO	SER	DESCRIPTION								
Rated Voltage kV		kV	Label/GIS ID code		Stock code		Serial Numb	er				
2. VIS	SUAL INSPEC	TION AN	ID SA	FETY CHECK								
			1 (Check that the installation	heck that the installation complies with the distribution construction standards and applicable design drawings.							
				check that Public Safety has been considered (e.g. cabinets secured and locked, trip hazards removed, anti-climbing devices pplied where applicable).								
				check the supply to the recloser, that it is switched off and isolated as per switching sheet and permit (this includes the auxiliary ower supply to control box).								
Inspect the following: • Structure			4 (Confirm (with approved testing device) that the recloser is de-energised.								
			5 E	Ensure that the earth system is complete, undamaged and bonded to earth points (recloser and control cabinet).								
• Ant	ntrol Cabinet enna th connections	s		Check that the nearest conductive material is at least two (2) metres away from the earth system (take a photo if possible) Measured distance						m		
Lanc			7	Check the maximum separation between the down earth and the recloser umbilical cable, as per construction drawing.								
			8 F	Recloser voltage rating matches system voltage.								
			9 (Check the recloser for damage, tank, bushings, cracks in boots and excessive dirt.								
				Ensure the bushing palms and the lugs have the correct torque: For three-phase reclosers apply 50 Nm to two M12 bolts per lug.								





		11	Check that all the HV lightning arresters have bird caps fitted and are tightened correctly.					
		12	Check that the anti-climbing guards and danger plate are fitted and correctly numbered					
		13	Check that the antenna surge diverter is fitted at the base of the control box (if applicable).					
		14	Check that the antenna is aligned to the correct bearing (applicable to radio comms only) and installed correctly (with elements vertical and drain hole down). Antenna pole brackets with open slotted fixing holes are not permitted (if applicable).					
		15	Check that auxiliary power supply cable (2.5 mm) has been connected correctly and has suitable surge diverter applied. Control box protection device limits the current to 4 Amps.					
		16	Check the control unit and batteries for signs of damage.					
		17	Check the integrity of control cubical door seal.					
		18	Attach switch instruction/information (including logbook) inside of control unit.					
19 All labels fitted and numbered correctly								
3. EARTH RESISTANCE TEST								
1	Test earth resistance using one of the following DCT's and record value in 3.4.							
2	New earth stake, use HPC-4DL-07-0038-2017 DCT- Earth Testing of Distribution Poles, to test the earth.							
3	Existing earth stake, use HPC-4DL-07-0037-2017 DCT- Earth Testing of Altered Systems, to test the earth.							
	Previous test value if	known	Ω =Ω	Measured value	=Ω	Value acceptable	Yes 🗌	No 🗌
4	Measured value would be acceptable if below 30 Ohms or a value between 0.8 and 1.2 which is obtained when dividing the Measured value by the Previous test value. Note: If previous test value is not known a value less than or equal to, 30 Ohms is acceptable.							
5	Earth stake resistance above 30 Ohms or outside of an acceptable value must be communicated to the formal leader or Asset manager.							
Docume	ent Management DM# 3	395408	342 Version 1				Page 2 of 5	





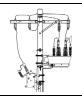
4.	INSULATION RESISTA	NCE (FOR ASINGLE-PHASE RECLOS	ER)			
1	Ensure the recloser is opened prior to conducting the IR test					
2			Test Connection	Expected Results	Test Results	
	lation resistance test:	nee tester	Between contacts 1 & 2	>100 MΩ	ΜΩ	
Use a 5 kV insulation resistance tester. Measure resistance after 1 minute. Discharge after each IR test.			Short-circuit all bushings and test simultaneously to tank.	>100 MΩ	ΜΩ	
3	Confirm recloser has I	oeen discharged after each test.				
5.	INSULATION RESISTA	NCE (FOR A THREE-PHASE RECLOS	ER)			
1	Ensure the recloser is	opened prior to conducting the IR test				
2		Bushing	Test Connection	Expected Results	Test Results	
	•		Red (U1) phase to white (V1) phase	>100 MΩ	МΩ	
		Supply side	White (V1) phase to blue (W1) phase	>100 MΩ	МΩ	
			Blue (W1) phase to red (U1) phase >100 M		МΩ	
	lation resistance test: a 5 kV insulation		Red (U2) phase to white (V2) phase	>100 MΩ	ΜΩ	
resis	stance tester.	Load side	White (V2) phase to blue (W2) phase	>100 MΩ	ΜΩ	
Measure resistance after 1 minute. Discharge after each IR test.			Blue (W2) phase to red (U2) phase	>100 MΩ	ΜΩ	
			Red (U1) phase to red (U2) phase	>100 MΩ	ΜΩ	
		Between contacts	White (V1) phase to white (V2) phase	>100 MΩ	МΩ	
			Blue (W1) phase to blue (W2) phase	>100 MΩ	МΩ	
		Short-circuit all bushings	Bushings to tank	>100 MΩ	ΜΩ	
Note	e: When a pole-mounted	recloser is closed, the insulation resistar	nce between contacts of the same phase (U1-U2, V1 – V2 and W1-	W2) should be zero.		
3	Confirm recloser has been discharged after each IR test.					





6.	ENERGISATION							
1	Ensure that all working earths and programmed earths are removed (if applicable)							
2	Where the recloser can be connected to the distribution network, phase out under HPCC switching schedules at a HV point such as a pole-top switch.							
3	Ensure that the switch is in the open position.							
4	Energise the switch as per the switching program and/or network configuration.							
5	Remove all bypass jumpers (if applicable)							
6	Disable or disconnect the trip and close coils, comms device (radio etc).							
7	Energise the control box and conduct an insulation/polarity test on the 240 V supply and the 240 V surge arrester.							
8	Ensure that the control unit indication matches the switches status.							
9	Check for any signs of abnormality.							
7.	HANDOVER OF RESPONSIBILITY FOR THE COMPLETION OF SECTIONS 1 TO 6							
I he	reby certify that sections 1 to 6 have been completed with satisfactory results and transfer control to the commissioning officer.							
Cor	Commissioning Officer: Pay Number:							
Sig	nature: Date: DD/MM/YY Time: HH:M	ЛМ						
	 Lock the control unit doors using two approved (NMK2) Western Power padlocks. NK6 padlocks must not be reused. Attach an "Out of Service (Warning)" tag to the padlock on the front of the control cabinet. Ensure that the work area is left tidy with no hazards to the public. Hand over responsibility to the Field Services for the commissioning of alarms and remote controls. 							





 8. ALARM AND CONTROL TESTING The Field Services Officer shall conduct test of the alarms and control appropriate for the unit. I hereby certify that alarm and control testing been completed with satisfactory results. This equipment is ready to be SAFELY energised. 							
Field Services Officer: Pay Number:							
Signature:	Date: DD/MM/YY Time: HH:N						
Notes:							
9. OPERATIONAL HANDOVER The commissioning officer must ensure that all checks are completed and the test results comply with the minimum standards. I hereby certify that all sections have been completed with satisfactory results and transfer responsibility to the network operating authority. This equipment is ready to be SAFELY energised. Commissioning Officer: Pay Number:							
Signature:	Date:	DD/MM/YY	Time:	HH:MM			
 Ensure the work area is left tidy with no hazards to the public. Hand over responsibility to the operating authority Return this sheet to the project/working file as a record of commissioning and as a document requ 	uired for the Hando	over Certificate.					