Transformer Location: 1. TRANSFORMER DESCRIPTION kV 2. VISUAL INSPECTION AND SAFE 1 Che	very CHECK	other electrical e	quipment and ve	erify planned escape	e routes.	area safe. Serial Number							
Transformer Location: 1. TRANSFORMER DESCRIPTION kV 2. VISUAL INSPECTION AND SAFE 1 Che	V ETY CHECK	Rated kVA	kVA	I		Serial Number							
1. TRANSFORMER DESCRIPTION kV 2. VISUAL INSPECTION AND SAFE 1	TY CHECK	Rated kVA	kVA	Stock code		Serial Number							
kV 2. VISUAL INSPECTION AND SAFE 1	TY CHECK	Rated kVA	kVA	Stock code		Serial Number							
2. VISUAL INSPECTION AND SAFE	TY CHECK	Rated kVA	kVA	Stock code		Serial Number							
1 Che													
	eck that the installat			2. VISUAL INSPECTION AND SAFETY CHECK									
	Check that the installation complies with the distribution construction standards and applicable design drawings.												
	removed where applicable).												
Inspect the following: 3 Che	Check the supply to the transformer, that it is switched off and isolated.												
	Confirm (with approved testing device) that the transformer is de-energised.												
Tap setting 5 Ens	Ensure that the earth system is complete, undamaged and bonded to earth points.												
	Check that the nearest conductive material is at least two (2) metres away from the earth ring/system (take a photo if possible)Measured distance						m 🗆						
	Transformer voltage rating matches system voltage.												
8 Tra	Transformer tap is at the position of previously installed transformer or per network planning requirements.												
9 Tra	Transformer tank and bushings in good condition (no oil leaks).												
10 HV	cables are properly	y terminated and	d connected on	transformer bushings	s (if applicable).								

HOI	HORIZON DISTRIBUTION COMMISSIONING TEST SHEET – SINGLE PHASE PAD/POLE MOUNTED TRANSFORMER HPC-4DL-07-0029-2014 HPC-4DL-07-0029-2014 This commissioning test sheet covers the checking, testing and commissioning of all replacement or new installations of single-phase pad/pole-mounted transformers up to 50 kVA before energisation. Image: Commission of the section of the sec						Contraction of the second					
11 The dead-end plugs are the correct voltage rating and correctly installed (transformer with 2 sets of HV bushings).												
	12 LV cables are properly terminated and connected on transformer LV bushings (if applicable).											
	13 Check neutral connected to neutral bar, earth connected to earth bar, check MEN link present.											
	14 All labels fitted and numbered correctly.											
3. E	EARTH RESISTAI										1	
1	Test earth resistance using one of the following DCT's and record value in 3.4.											
2	New earth stakes, use HPC-4DL-07-0004-2014 DCT- Earth Testing of Distribution Substation, to test the earths.											
3	Existing earth st	tisting earth stakes, use HPC-4DL-07-0037-2017 DCT- Earth Testing of Altered Systems, to test the earths.										
	Previous test value if known= Ω Measured value= Ω Value acceptableYesNo											
4												
5 Earth stake resistance above 10 Ohms or outside of an acceptable value must be communicated to the formal leader or Asset manager.												
4. E	EARTH RESISTAI	NCE TEST	(POLE)									
1	Test earth resist	tance using	one of the follow	ing DCT's	and record value in 3.4	ŀ.						
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 va	alue if knowr	ı =	Ω	Measured value		=	Ω	Value acceptable	Yes 🗌	No [
4	test value.				ns or a value between 0 than or equal to, 30 Ohr			otained whe	en dividing the Measured va	alue by the Prev	ious	
5								d to the for	mal leader or Asset manage	er.		
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HOF	HORIZON DISTRIBUTION COMMISSIONING TEST SHEET - SINGLE PHASE PAD/POLE MOUNTED TRANSFORMER HPC-4DL-07-0029-2014 POWER This commissioning test sheet covers the checking, testing and commissioning of all replacement or new installations of single-phase pad/pole-mounted transformers up to 50 kVA before energisation. Image: Commission of test sheet covers the checking state of test sheet covers up to 50 kVA before energisation. Image: Commission of test sheet covers the checking state of test sheet covers up to 50 kVA before energisation.								
5. INSULATION RESISTANCE AND CONTINUITY TESTS									
1	1 Ensure that the high voltage (HV) and low voltage (LV) windings of the transformer are de-energised.								
2	2 Ensure all electrical connections have been disconnected, including MEN link.								
3			Test Connection	Test Voltage	Expected Results	Test Results			
			A8 to tank (two bushings only)	2.5 kV	>1,000 MΩ	Ω			
5w• •		4. Using an insulation resistance tester for a minimum of 1 minute for a stable	SW/A8 to a1	1 kV	>100 MΩ	Ω			
ER		reading test the following:	SW/A8 to a3	1 kV	>100 MΩ	Ω			
Single	e Bushing	Discharge after each IR test.	Tank to a1	1 kV	>100 MΩ	Ω			
	>100 MΩ	Ω							
			SW/A8 to ER/A1	1 kV	0 Ω	Ω			
A1		5. Continuity:	a1 to a2	1 kV	0 Ω	Ω			
Two	Two Bushing a3 to a4 1 kV 0 Ω								
4	4 Reconnect phase cables, tighten bolts with recommended torque stated below.								
5	5 Reconnect neutral cables, tighten bolts with recommended torque stated below.								
6	6 Reconnect neutral-to-earth links, tighten bolts with recommended torque stated below.								
Sugges	sted bolt torques: M10 stainless ste M12 stainless ste M14 stainless ste M16 stainless ste	el bolts: 66 Nm el bolts: 106 Nm							
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HORIZON POWER	DISTRIBUTION COMMISSIONING TEST SHEET – SINGLE PHASE PAD/POLE MOUNTED TRANSFORMER HPC-4DL-07-0029-2014 This commissioning test sheet covers the checking, testing and commissioning of all replacement or new installations of single-phase pad/pole-mounted transformers up to 50 kVA before energisation.							
6. HANDOVER OF RESPONSIBILITY FOR THE COMPLETION OF SECTION 1 TO 5								
I hereby certify that section 1 to 5 has been completed with satisfactory results and transfer responsibility to the commissioning officer.								
Testing Officer: Pay Number:								
Signature: Date: DD/MM/YY Time: HH:M								
 ENERGISATION OF TRANSFORMER WITHOUT LOAD NOTE Highest risk of failure of a transformer is at energisation – ensure escape plan in place and JRA reflects potential hazard. 								
	If applicable, check that the HV fuses are correct.		Fuse Rating	A 🗆				
Check that the transform LV is not connected to th								
LV network	Energise the transformer HV as per HV switching program (che	Energise the transformer HV as per HV switching program (check for abnormal noise)						
Check the HV fuse rating before energizing the transformer HV	Measure voltage at the secondary/LV side 226-25		V					
8. ENERGISATION OF TRANSFORMER WITH LOAD								
If applicable, check that the LV fuses are correct								
Energise the LV circuits as per LV switching program. Program No.								
Check and record the secondary (LV) voltage.								
Disconnect the transformer from any interconnected transformer (if applicable).								
Conduct a service conne	ction test on all installations where the service connection have been	disturbed.						
When erecting a new or reconstructed LV apparatus, check the voltage at an existing LV point, if possible. Phase out any newly fitted LV disconnectors and check them for sound operation.								
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HORIZON POWER	DISTRIBUTION COMMISSIONING TEST SHEET – SINGLE PHASE PA HPC-4DL-07-0029-2014 This commissioning test sheet covers the checking, testing and commissioning of al pad/pole-mounted transformers up to 50 kVA befo	all replacement o	or new installatio		ase
9. OPERATIONAL H	ANDOVER				
v	r must ensure that all checks are completed and the test results comply with the minir sections have been completed with satisfactory results and transfer responsibility to th rgised.			This equipment	is ready to be
Commissioning Officer:	F	Pay Number:			
Signature:	[Date:	DD/MM/YY	Time:	HH:MM
		-		-	
2. Hand over resp	k area is left tidy with no hazards to the public. onsibility to the operating authority et to the project/working file as a record of commissioning and as a document required	ed for the Hando	over Certificate.		
<u></u>					