HORIZON POWER		This c	DISTRIBUTION COMMISSIONING TEST SHEET – THREE PHASE POLE MOUNTED REACTOR HPC-4DL-07-0041-2023 commissioning test sheet covers the checking, testing and commissioning of all replacement or new installations of three phase pole-mounted reactors before energisation.									
NOTE: SAFETY	: At all times	maintai	n su	out after the instal uitable clearance t ests, wherever po	o all other electr	ical equipmen	it and verify plar	nned escape ro		ea safe.	ک ح ^ر کې	
DATE:			Project No.	Name of Officer								
Shunt Reactor Location:												
1. RE	ACTOR DESCR	RIPTION										
Rated Voltage		ł	٢V	Rated kVAr	kVAr		Stock code		Serial Numb	er		
2. VI	SUAL INSPECT	ION AN	D S/	AFETY CHECK								_
Inspect the following: • Rating plate • Tank and bushings • Oil level • HV terminations			1	Check that the installation complies with the distribution construction standards and applicable design drawings.								
			2	Check that Public Safety has been considered (e.g. trip hazards removed, anti-climbing devices applied where applicable).								
			3	Check the supply to the shunt reactor, that it is switched off and isolated as per switching sheet and permit.								
			4	Confirm (with approved testing device) that the reactor is de-energised.								
			5	Ensure that the earth system is complete, undamaged and bonded to earth points.								
		;	6	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								n 🗆
			7	Shunt reactor voltage rating matches system voltage.								
			8	Shunt reactor oil level is satisfactory (if visible).								
			9	Check tank caps, on rear at bottom LHS and on top at back LHS (if visible), that are secure and not leaking.								
		,	10	Shunt reactor tank and bushings in good condition (no oil leaks).								
		,	11	All labels fitted and numbered correctly.								
Documer	nt Management [DM# 400	670)76 V	ersion 1					Page	e 1 of 2	

HOF	POWER	DISTRIBUTION CO	s the che	HPC-4DL	-07-0041-20 commissioni	23 ing of all replacem	IOUNTED REACTOR		hase	
3. E	ARTH RESISTAN	NCE TEST								
1	Test earth resist	t earth resistance using one of the following DCT's and record value in 3.4.								
2	New earth stake	ew 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	lue if known =Ω	Measur	ed value	=	Ω	Value acceptable	Yes [No 🗌
4	test value.	leasured 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 est value. ote: If previous test value is not known a value less than or equal to, 30 Ohms is acceptable.								
5										
4. II	NSULATION RES	ISTANCE TEST								
1	Ensure that the l	high voltage (HV) terminals of the shun	t reactor	are de-energised	and disconne	ected (including ne	eutral to earth).			
	Using an insulation resistance tester for a minimum of 1 minute for a				Test Connection		e Expected Res	esults Test Res		Results
(Short	stable reading test: (Short circuit all winding terminals of the source of the same voltage level together.)			Primary HV to Tank 2.5 kV			>1,000 MG	0 ΜΩ		2
2	Confirm shunt re	eactor has been discharged.								
3	3 Confirm all conductors and neutral reattached as per DCS.									
The cor		r must ensure that all checks are comp ections have been completed with satis					operating authority. Th	is equipmer	nt is rea	dy to be
Signature:						Date:		Time:		- HH:MM
l						Buto.		nino.		1 11 1.101101
1. 2. 3.	Hand over respo	area is left tidy with no hazards to the posibility to the operating authority at to the project/working file as a record		issioning and as a	document re	equired for the Ha	ndover Certificate.			
Docume	ent Management [DM# 40067076 Version 1						Pa	age 2 of	2

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