HORIZON POWER	This c		DISTRIBUTION COMMISSIONING TEST SHEET – POLE-TOP SWITCH HPC-4DL-07-0023-2014 issioning test sheet covers the checking, testing and commissioning of all replacement or new installations of pole-top switch (PTS) before energisation.							
DATE:		Project No.			Name of Officer					
Pole-Top Switch Location	on:					- -				
1. POLE-TOP SWITCH	H DESCF	RIPTION								
Rated System Voltage		kV	Pole Number			Label/GIS ID cod	de			
Make			Stock code			Serial Number				
2. VISUAL INSPECTION	ON AND	SAFETY CHECK					·			
	1 2 3	Check that the installation complies with the distribution construction standards and applicable design drawings. Check that Public Safety has been considered (e.g. lever secured and locked, trip hazards removed, anti-climbing devices applied where applicable). Check the supply to the pole-top switch, that it is switched off and isolated as per switching sheet and permit. □								
	4	Confirm (with approved testing device) that the pole-top switch is de-energised.								
	5	Check that the pole- top switch rating matches system voltage.								
	6	Apply corrosion inhibiter as per manufacturer's recommendation								
Inspect the following: Structure Contacts	7	Check that the switch blades (and flexi-tails) are properly oriented with the switch closing and opening smoothly, and that the contacts are fully seated in the close position, and that all three blade are firm and operate simultaneously (adjust if necessary).								
 Earth connections 	8	Check that the retaining springs of the pole-top switch are correctly installed. Check all bolts, nuts, connections are tight and secure.								
	9	Check that the earth system, (i.e. switch body, switch handle and earth mat), is complete, undamaged and bonded to earth points.								
	10	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								
	11	Check that there is a continuous insulated earth cable from switch body to the handle and then to the earth rod (i.e. the removal of the earth cable from the handle does not break the connection between the switch body and earth rod).								
	12	Check that a Horizon Power approved lock can be applied in both the open and closed positions.								
	13	Check that the structure is numbered and labelled correctly with labels and danger signs fitted correctly.								



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3. EARTH RESISTANCE TEST

1	Test earth stake resistance using one of the following DCT's and record value in 3.4.								
2	New earth stake, use HPC-4DL-07-0038-2017 – Earth Testing of Distribution Poles, to test the earth								
3	3 Existing earth stake, use HPC-4DL-07-0037-2017 – Earth Testing of Altered Systems, to test the earth								
	Previous test value if known	=	Ω	Measured value	=	Ω	Value acceptable	Yes 🗌 No	
4	4 Measured value would be acceptable if below 30 Ohms or a value between 0.8 and 1.2 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	5 Earth stake resistances above 30 ohms or outside of an acceptable value must be communicated to the formal leader or Asset Manager.								
4.	ENERGISATION								
Ensi	ure that all working earths and pr	ogrammed	l earths are rem	noved (if applicable)					
						(Connections	Phase-out Test Res	ults
							Red	In phase 🗌 yes 🗌 r	
Conduct a phase-out test under HPCC switching schedules if the conductors on both sides of the					Red to	White	In phase 🗌 yes 🗌		
						Blue	Blue In phase 🗌 yes [
switch are energised from different feeders. Use appropriate phasing devices to ensure that phases on the left side of the switch are in phase with those on the right side of the switch					White to	Red	In phase 🗌 yes 🔲		
				n phase		White	In phase 🗌 yes 🗌] no	
					Blue	In phase 🗌 yes 🗌			
				Blue to	Red	Red In phase 🗌 yes [
					White	/hite In phase 🗌 yes [
							Blue	In phase 🗌 yes 🗌] no
Ensi	ure that the switch is in the correc	t position	(open closed) a	as per the switching program	m or networl	k configuration.			
Enei	rgise the switch as per the switch	ing progra	m and/or netwo	ork configuration.					
Rem	nove all bypass jumpers (if applic	able)							
Che	ck for any signs of abnormality.								
Docu	ment Management DM# 2734287	7	Version 3					Page 2 of 3	

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5. OPERATIONAL H	
	er must ensure that all checks are completed and the test results comply with the minimum standards. Sections have been completed with satisfactory results and transfer responsibility to the network operating authority. This equipment is ready to be
SAFELY energy	-
Commissioning Officer:	
Signature:	Date: DD/MM/YY Time: HH:MM
3. Return this shee	at to the project/working file as a record of commissioning and as a document required for the Handover Certificate.