

## **DISTRIBUTION COMMISSIONING TEST SHEET - POLE-TOP SWITCH** HPC-4DL-07-0023-2014



This commissioning 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	<b>า</b> :				•			
1. POLE-TOP SWITCH	DESCI	RIPTION						
Rated System Voltage		kV	Pole Number		Label/GIS ID cod	de		
Make			Stock code Serial Number					
2. VISUAL INSPECTION	N AND	SAFETY CHECK			•	•		
	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. lever secured and locked, trip hazards removed, anti-climbing devices a where applicable).				ces applied	L	
	3	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.						
Inspect the following:	6	Apply corrosion inhibiter as per manufacturer's recommendation						
<ul> <li>Structure</li> </ul>	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).						
<ul><li>Contacts</li><li>Earth connections</li></ul>	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 neare system (take a photo	nearest conductive material is at least two (2) metres away from the earth 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 struct	nat the structure is numbered and labelled correctly with labels and danger signs fitted correctly.					



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Page **2** of **3** 

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3.	EARTH RESISTANCE TEST							
1	Test earth stake resistance usi	ing one of the following DC	r's and record value in 3.4					
2	New earth stake, use HPC-4D	L-07-0038-2017 – Earth Te	sting of Distribution Poles,	to test the	earth			
3	Existing earth stake, use HPC-	-4DL-07-0037-2017 – Earth	Testing of Altered System	s, to test th	ne earth			
	Previous test value if known	=Ω	Measured value	=	Ω	Value acceptable	Yes No [	
4	Measured value would be acce Note, if previous test value is r				nined when dividir	ng the Measured value by t	the Previous test value.	
5	Earth stake resistances above	30 ohms or outside of an	acceptable value must b	e communi	cated to the form	al leader or Asset Manage	r.	
4.	ENERGISATION							•
Ensu	re that all working earths and pr	ogrammed earths are remo	ved (if applicable)					
					Connections Phase-out Test Resu			ılts
						Red	In phase ☐ yes ☐	
					Red to	White	In phase ☐ yes ☐	
Cond	duct a phase-out test under HPC	C switching schedules if the	e conductors on both sides	s of the		Blue	In phase ☐ yes ☐	
switc	ch are energised from different fe	eders.			White to	Red	In phase ☐ yes ☐	
	appropriate phasing devices to e those on the right side of the swi		TT side of the switch are in	pnase		White	In phase ☐ yes ☐	
						Blue	In phase ☐ yes ☐	
					Blue to	Red	In phase ☐ yes ☐	
						White	In phase ☐ yes ☐	
						Blue	In phase ☐ yes ☐	
Ensu	ure that the switch is in the correc	ct position (open closed) as	per the switching program	or network	configuration.			
Energise the switch as per the switching program and/or network configuration.								
Remove all bypass jumpers (if applicable)								
Check for any signs of abnormality.								



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OPER			

The com	nmissioning officer must ensure that all checks are completed and the test results comply wi	th the minimum standar	ds.				
I hereb	by certify that all sections have been completed with satisfactory results and transfer response <b>SAFELY</b> energised.	sibility to the network op	erating authority.	This equipment is	ready to be		
Comm	issioning Officer:	Pay Number:					
Signat	ure:	Date:	DD/MM/YY	Time:	HH:MM		
				-			
1.	Ensure the work area is left tidy with no hazards to the public.						
2.	2. Hand over responsibility to the operating authority						
3.	3. Return this sheet to the project/working file as a record of commissioning and as a document required for the Handover Certificate.						