



**DISTRIBUTION COMMISSIONING TEST SHEET – HIGH VOLTAGE OVERHEAD POWERLINES**  
**HPC-4DL-07-0009-2014**

This commissioning test sheet covers the checking and commissioning of all replacement or new installations of high voltage overhead powerlines (three phase and single phase).



**SAFETY:** At all times maintain suitable clearance to all other electrical equipment and verify planned escape routes.

<b>DATE:</b>		<b>Project No.</b>		<b>Name of Officer</b>	
<b>Test Site</b>					
<b>Location of Conductor: From:</b>				<b>To:</b>	

**1. INSTALLATION AND CONSTRUCTION CHECKS**

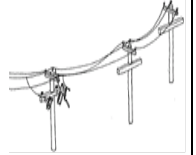
Inspect the constructed line and carry out the following checks.	1	Check that the installation complies with the distribution construction standards and applicable design drawings.	<input type="checkbox"/>
	2	Check the supply to the overhead powerline, that it is switched off and isolated as per switching program and permit'.	<input type="checkbox"/>
	3	Confirm that the powerline is de-energised (with approved testing device).	<input type="checkbox"/>
	4	Ensure that the earth resistance test results at all earth points are acceptable (If applicable).	<input type="checkbox"/>
	5	Wherever possible, check that there is no physical damage to the conductor or equipment and that all is secured.	<input type="checkbox"/>
	6	Check that the structures are clearly numbered and labelled correctly.	<input type="checkbox"/>
	7	Check that all the terminations and connections are completed correctly and secured.	<input type="checkbox"/>
	8	Check that all the ground work is completed.	<input type="checkbox"/>
	9	Check that Public Safety has been considered (e.g. trip hazards removed, anti-climbing devices applied where applicable).	<input type="checkbox"/>

**2. CONDUCTOR TENSION CHECK**

Check the tension of the conductors as per the conductor tension table and record the details.	1	Date tensioned	DD/MM/YYYY	Tension correct <input type="checkbox"/>
	2	Conductor size and type		
	3	Conductor temperature	°C	
	4	Ruling span (bay) length	m	
	5	Tension (dynamometer)	kg	
	6	Beat bay length	m	
	7	Tension (beat method)	seconds per 5 wave return	

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**3. LINE HARDWARE**

Check the clearance of the conductors, poles and stays (if applicable)	1	Check that the installation (poles, line hardware and other equipment) complies with the distribution construction standards, applicable design drawings and there is no sign of damage.	<input type="checkbox"/>
	2	Check that the voltage rating of the line hardware matches the system voltage (if applicable).	<input type="checkbox"/>
	3	Check that all connections are correctly placed and are secure.	<input type="checkbox"/>
	4	Check that no loose or unconnected items exists on the line.	<input type="checkbox"/>

**4. VISUAL CLEARANCE CHECKS**

Check the clearance of the conductors, poles and stays (if applicable)	1	Check clearance of conductor to ground/road/waterway	<input type="checkbox"/>
	2	Check clearance of conductor to vegetation (i.e. easement width)	<input type="checkbox"/>
	3	Check clearance of conductor to pole (angle poles), and between conductors	<input type="checkbox"/>
	4	Check clearance of pole to road verge (if applicable)	<input type="checkbox"/>

**5. ENERGISATION**

Energisation of the high voltage overhead powerline	1	Ensure that all working earths and programmed earths are removed (if applicable).	<input type="checkbox"/>
	2	Check that the high voltage fuses are correct (if applicable).	<input type="checkbox"/>
	3	Energise the powerline as per the switching program	Number <input type="checkbox"/>
	4	Phase-out under HPCC switching schedules across the normally open point if applicable	<input type="checkbox"/>

**6. 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

1. Ensure the work area is left tidy with no hazards to the public.
2. Hand over responsibility to the operating authority
3. Return this sheet to the project/working file as a record of commissioning and as a document required for the Handover Certificate.



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