



Powercor Australia Ltd  
ABN 89 064 651 109

## D. Transformers-SWER Iso - Test Report

Job Title:

Test Instrument Model		Instrument No.	
Test Instrument Model		Instrument No	
Tested by		Date	

DSM (location) Number	
Make	
Serial Number	
Rating	
Voltage	
Tap Setting	

CONTINUITY AND INSULATION RESISTANCE TESTS			
SWER Iso			
HV		A1-A2	Expected Results
	Service tap	Ω	0Ω
	A1-transformer tank	MΩ	>1000 MΩ (1GΩ)
	A1-SW	MΩ	>1000 MΩ (1GΩ)
	SW-ER	Ω	0Ω
	SW-transformer	MΩ	>10 MΩ
LV	a1-a4	Ω	0Ω
	a1-neutral	Ω	0Ω
	a1-transformer tank	MΩ	>1000 MΩ (1GΩ)
HV-LV	A1-a1	MΩ	>1000 MΩ (1GΩ)
	SW-a1	MΩ	>100 MΩ

VOLTAGE TEST	
SWER IsoI	
Active to Neutral	V
Active to Neutral	V
Active to Active	V

HV FUSES	
Make/Number	
Fuse	PF <input type="checkbox"/> EDO <input type="checkbox"/> BA <input type="checkbox"/> FT <input type="checkbox"/>
Fuse Rating	
Element Type	K <input type="checkbox"/> E <input type="checkbox"/> T <input type="checkbox"/>

LV FUSES	
Type / Make	
Fuse Unit	
Fuse Rating	
Element Type	

SURGE DIVERTERS	
Make	
Number of	
Class	A(Fire) <input type="checkbox"/> C(Non Fire) <input type="checkbox"/>

EARTH RESISTANCE TEST	
<b>Substation Type (tick type applicable)</b>	
Pole mounted	
Ground type	
Indoor type	
Kiosk	

Earthing System (tick system applied)		Earthing arrangement (tick applied arrangement)	
CMEN		Common	
MEN		Bonded HV/LV	
IMEN		Separate HV/LV	

Maximum Resistance			
Earth System to Ground		Allowed (Refer to CB011)	Measured
		HV	Ω
	LV	Ω	Ω
	Common	Ω	Ω
Neutral to Ground		Ω	Ω

CHECKLIST		
Items	Checked	Comment (if any)
All required tests satisfactorily completed as per CB011		
HV metalclad switchgear tests satisfactorily completed as per CB021		
Substation and complete installation complies with the Work instruction requirements a) Is the transformer the correct polarity? b) Correct Vector Group? c) Correct Rating?		
No visible damage		
Is the correct earthing system installed		
Is the appropriate earth conductor size used		
Fuses appropriate for substation size are correctly installed where applicable		
Have all breather caps been removed as required		
Is the transformer oil level correct		
Insulating caps placed on unused bushings (kiosk substation only)		
<b>Signs and Labels</b>		
Ensure all signage and labelling complies with DS411		

Commissioning Test Passed Yes -  No -

Comments

Signed:

Date: