

SOM FACILITIES START-UP AND COMMISSIONING CHECK LIST FOR ELECTRICAL EQUIPMENT

Building:	Project Name:	
Date:	Name:	

CIRCUIT BREAKERS - LOW VOLTAGE (POWER)

ITEM	DESCRIPTION	STATUS	COMMENTS
1	Visual and Mechanical Inspection		
a	Document equipment nameplate data on test report	P F	_____
b	Verify equipment nameplate ratings are in accordance with drawings & specifications	P F	_____
c	Inspect physical and mechanical condition	P F	_____
d	Confirm correct application of lubricants at manufacturer's recommended locations	P F	_____
e	Inspect anchorage, alignment, and grounding	P F	_____
f	Inspect arc chutes	P F	_____
g	Verify that all maintenance devices are available for servicing and operating the circuit breaker	P F	_____
h	Perform all mechanical operator and contact alignment tests on both the circuit breaker & its operating mechanism	P F	_____
i	Verify tightness of accessible bolted bus connections by calibrated torque-wrench method	P F	_____
j	Check cell fit and element alignment.	P F	_____
k	Check racking mechanism	P F	_____
l	Verify that the circuit breaker is equipped with the correct rating plugs and current sensors	P F	_____

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ITEM	DESCRIPTION	STATUS	COMMENTS
1	Visual and Mechanical Inspection (continued)		
m	Verify that the circuit breaker has the specified trip unit LI, LIS etc.	P F	_____

- n Verify that the circuit breaker has the specified accessories, auxiliary contacts, cell switches, shunt trip devices, undervoltage release, etc.
- o Verify that the ground fault system has been wired in accordance with the wiring diagram & that the sensor ground is present
- p Verify that the secondary control plug/connections are in accordance with the wiring diagram and specifications

P F
P F
P F

2 Electrical Tests

- a Perform a contact-resistance test in accordance with manufacturer's recommended procedure
- b Perform insulation-resistance test at 1000 Vdc from pole-to-pole and from each pole-to-grd with circuit bkr closed & across open contacts of each phase
- c Make adjustments for the final settings in accordance with the coordination study supplied by the owner
- d Determine the following using secondary current injection:
 - Minimum pick-up current by
 - Long-time delay
 - Short-time pick-up and delay
 - Ground-fault pick-up and delay
 - Instantaneous pick-up value

P F
P F
P F
P F
P F
P F
P F
P F

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ITEM	DESCRIPTION	STATUS	COMMENTS
2	Electrical Tests (continued)		
e	Activate auxiliary protective devices such as undervoltage relays, to insure operation of shunt trip devices	P F	
f	Check for operation of electrically operated circuit breakers	P F	
g	Verify correct operation of any auxiliary features such as trip & pick-up indicator, electrical close and trip operation, trip-free, & anti-pump function	P F	

h Chek electric charging mechanism, if applicable.

P F
