

BUILDING MAINTENANCE AND STRATA MANAGEMENT ACT 2004
BUILDING MAINTENANCE AND STRATA MANAGEMENT
(LIFT, ESCALATOR AND BUILDING MAINTENANCE)
REGULATIONS 2016 ("BMSM (LEBM) Regulations")

REPORT FOR ANNUAL INSPECTION/LOAD TESTING
FOR APPLICATION FOR PERMIT TO OPERATE THE LIFT

Commissioner of Buildings Building and Construction Authority 52 Jurong Gateway Road #11-01 Singapore 608550 Website: https://www.bca.gov.sg/	INSTRUCTIONS: (1) *Circle accordingly. (2) If "Not Satisfactory (NS)" is selected for any item, to indicate in the remarks column the reason(s) for selecting "NS". (3) Status of all items (except those marked as "Not Applicable (NA)") should be "Satisfactory (S)", at the point of inspection, before submission. (4) This checklist is not exhaustive. Specialist Professional Engineers ("SPE") must exercise their due diligence and flag out any other safety related observations that may affect the operation of the lift, not listed in this checklist.
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Address/Location: _____ (Postal Code) _____	
Lift ID/Number: _____	Year of Installation/Completion: _____
Type: <u>Machine Room / Machine Roomless(MRL)</u> ; <u>Home / Passenger / Goods / Others</u>	Applicable Code/Year: _____
Number of stops: _____	Rated speed (m/sec): _____
Test Date: _____ ; <u>Full Load Test / No Load Test</u>	Rated Load: _____ (kg)

Section A

Checks for Annual Testing of Traction Lifts (both Full and/or No-Load Test)

Machine room/head room		Status Satisfactory (S); Not Satisfactory (NS); Not Applicable (NA)			Remarks
1	Traction motor condition (e.g. coupling condition)	S	NS	NA	
2	Drive & traction and deflector sheaves (e.g. groove profile and condition)	S	NS	NA	
3	Gearbox (e.g. oil condition and level, excessive backlash, bearings condition)	S	NS	NA	
4	Effectiveness of brakes (checks include: free moving plunger, plunger lever movement, brake drum surface contamination, verification of air gap)	S	NS	NA	
5	Overspeed governor sheave condition	S	NS	NA	
6	Overspeed governor tripping mechanism	S	NS	NA	
	Overspeed governor overspeed switch function	S	NS	NA	
	Flyweights condition (e.g. free/non-restricted movement of flyweights)	S	NS	NA	
	All linkages and moving parts in the overspeed governor are free of defects	S	NS	NA	
	Overspeed governor gripping jaw function (e.g. jaw is able to effectively grip the rope, pulling force of the governor effectively engages the safety gear)	S	NS	NA	
	Safety gear switch function	S	NS	NA	
7	Ascending Car Over speed Protection (ACOP): Detection means used _____ Stopping means used _____	S	NS	NA	
8	Unintended Car Movement Prevention (UCMP) function	S	NS	NA	
9	Terminal speed reduction system function	S	NS	NA	
10	Emergency power supply for lighting, ventilation, alarm and intercom systems (e.g. EBOPS, ARES, UPS) function	S	NS	NA	
11	Controller and electrical system (e.g. PCB delamination, signs of overheating, function of ELCB)	S	NS	NA	
12	Governor rope Ø - Required (mm) _____ Measured(mm): _____	S	NS	NA	
13	Automatic Rescue Device (ARD) function	S	NS	NA	

Hoist way												Status Satisfactory (S); Not Satisfactory (NS); Not Applicable (NA)			Remarks	
14	Door locks and switches (e.g. landing door, emergency access door)											S	NS	NA		
15	Suspension rope condition (e.g. excessive broken wires of strands, excessive rouging, excessive rust; according to manufacturer's recommendations)											S	NS	NA		
16	Required Ø (mm) _____ Fill in the measured Ø of each rope (mm) in the table below:											S	NS	NA		
	Rope 1	Rope 2	Rope 3	Rope 4	Rope 5	Rope 6	Rope 7	Rope 8	Rope 9	Rope 10	Rope 11					Rope 12

Lift car and pit		Status Satisfactory (S); Not Satisfactory (NS); Not Applicable (NA)			Remarks
17	25mm car door gap test on the doorway	S	NS	NA	
18	Car door mechanical lock function	S	NS	NA	
19	10mm car & landing door gap with door frame	S	NS	NA	
20	Door protection devices function	S	NS	NA	
21	Counterweight runby signage	S	NS	NA	
22	Design Counterweight runby: _____ Measured Car top clearance (mm) _____ Measured Counterweight Runby (mm) _____	S	NS	NA	
23	Buffer condition (e.g. proper fixing, oil level, oil leak, aging polyurethane buffer, cracked or corroded spring) Buffer type _____	S	NS	NA	
24	All emergency-stop switches (e.g. machine room, hoist way, car top, lift pit)	S	NS	NA	
25	Overspeed governor rope tension sheave condition	S	NS	NA	
26	Lift pit ladder (e.g. accessibility, condition)	S	NS	NA	
27	Lift pit cleanliness	S	NS	NA	
28	Ventilation / illumination requirements (e.g. machinery space, car top, lift pit)	S	NS	NA	

Section B
Full Load Test of Traction Lifts Only

Additional checks/tests for full load		Status Satisfactory (S); Not Satisfactory (NS); Not Applicable (NA)			Remarks
<u>Machine room / Head room</u>					
29	Emergency brake stopping distance (mm)_____	S	NS	NA	
30	Manual rescue function (electrical / mechanical)	S	NS	NA	
31	Load balance point (%)_____	S	NS	NA	
<u>Hoist way</u>					
32	Overspeed governor and safety gear function at full load (refer to item 6)	S	NS	NA	
<u>Lift Car and Pit</u>					
33	Function of over-load weighing device, its alarm and indicator	S	NS	NA	

Section C
Any Other Observations & Declarations

Any other observations (to be used for both full and/or no load test):

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Observations:

Declaration by lift testing contractor:

I, on behalf of the lift service contractor engaged by the owner of the lift to examine, inspect and test the lift in accordance with Regulation 7(1) of the BMSM (LEBM) Regulations ("**lift testing contractor**"), declare that:

- (1) The measurements, observations and information as stated above are true and accurate as at the date of this submission.
- (2) The lift testing contractor has carried out the examination, inspection and testing of the lift, in the presence of the supervising SPE.
- (3) The supervising SPE is not a partner, associate, director, officer or employee of the lift testing contractor carrying out the examination, inspection and testing of the lift.

I/We submit all information and data in the Report for Annual Inspection/Load Testing for Application for Permit to Operate the Lift (the "Report"), and all information and data in respect of and in connection with the lift whether submitted now or in the future, to the Commissioner of Buildings, and I/we consent for the Commissioner of Buildings to disclose any or all such information and data to the Building and Construction Authority, and all other public sector agencies and authorities in Singapore, who may use such information and data for: (a) exercising their powers; (b) discharging their functions; and/or (c) developing and/or promoting the built environment in Singapore and persons in the built environment sector.

Lift Testing Contractor:

Name of Representative:

Designation of Representative:

Date of Submission:

Declaration by supervising SPE:

I, as the supervising SPE appointed in respect of the examination, inspection and testing of the lift for purposes of renewing the permit to operate for the lift, certify and declare that:

- (1) I have checked and verified the measurements, observations and information as set out above in respect of the lift, and I confirm that such measurements, observations and information as stated above are true and accurate.
- (2) The lift testing contractor carried out the examination, inspection and testing of the lift in my presence.
- (3) The lift is fit and safe for operation and use.
- (4) I am not a partner, associate, director, officer or employee of the owner of the lift or the lift testing contractor carrying out the examination, inspection and testing of the lift.
- (5) The lift was tested in accordance with the code(s) identified above and the lift has been verified to be compliant with the code(s) identified above.

I/We submit all information and data in the Report for Annual Inspection/Load Testing for Application for Permit to Operate the Lift (the "Report"), and all information and data in respect of and in connection with the lift whether submitted now or in the future, to the Commissioner of Buildings, and I/we consent for the Commissioner of Buildings to disclose any or all such information and data to the Building and Construction Authority, and all other public sector agencies and authorities in Singapore, who may use such information and data for: (a) exercising their powers; (b) discharging their functions; and/or (c) developing and/or promoting the built environment in Singapore and persons in the built environment sector.

Name of Supervising SPE:

SPE Signature:

Date of Submission: