



April 2023

ELEVATOR PERIODIC CATEGORY TESTS AND INSPECTION FREQUENCY

All elevators require regular periodic tests to be performed. Certain older model elevators may not have had testing and inspection requirements established within their original code of construction. Newer editions of elevator safety codes have introduced testing requirements to verify the safe operation of elevators. To remove ambiguity with how newer safety code editions apply to older model elevators, *The Passenger and Freight Elevator Regulations, 2017* were modernized to clarify periodic test requirements for all elevators in the province. Many older elevators that may not have been subject to regular safety testing are now due for their safety test in 2023.

The owner shall ensure the following:

- that in addition to regular maintenance, Periodic Category 1, and Periodic Category 5 Tests are performed at the respective 1 and 5-year intervals;
- that Periodic Category 1 and Periodic Category 5 Tests follow the applicable sections of ASME A17.1- 2013/CSA B44-13, Safety Code for Elevators and Escalators in the conduct and evaluation of tests (or a more recent code edition used for the design of the elevator);
- that the completion of, and results of these tests be recorded within the required equipment record or log maintained within the machine room, and;
- that the completion of, and results of these tests be submitted to TSASK.

Owners shall coordinate with their maintenance contractor the timing and scheduling of periodic tests for their elevators. Owners may tender testing services to any licensed contractor when periodic tests are not a part of their maintenance service contract. Failure to have a safety test completed at the required time may result in your elevator being sealed out-of-service.

BULLETIN APPLIES TO ALL ELEVATORS

This bulletin applies to all elevators including electric elevator types, hydraulic elevators, roped hydraulic elevators, rack and pinion elevators, LU/LA elevators, material lifts, and dumbwaiters.

PERIODIC CATEGORY SAFETY TESTS

Periodic Category Tests are an important part of a preventative maintenance program. In addition to regularly scheduled maintenance performed on elevators, Periodic Category 1, and Category 5 Tests shall be completed at their required intervals as described below, based on the age of the elevator. Owners should not consider these tests within the scope of their regular preventative maintenance activities to the extent that they delay normal maintenance activities, but as additional.

Periodic Category 1 and Periodic Category 5 Test checklists have been included to create a standard for the accurate and whole completion of all required component tests with applicable references to the ASME A17.1/CSA B44 code rules. Note that the required component Periodic tests may be completed individually over a period of scheduled visits, but all tests shall be completed within the calendar year.





The checklists for completing the Periodic Category 1 and Periodic Category 5 Tests include references to the ASME A17.1-2013/CSA B44-13, Safety Code for Elevators and Escalators Section 8.6 (Maintenance, Repair, Replacement, and Testing) as well as the ASME A17.2-2012 Guide for Inspection of Elevators, Escalators, and Moving Walks (Items/Parts). To be referenced as a minimum standard to be used as test procedures only. In addition, all company safety procedures/policies are to be followed if they differ in procedures referenced in this guide.

The completed Category Test Checklists shall be submitted to elevatorsafety@tsask.ca upon completion of the final component test, but no later than December 31. Periodic Category Tests shall be completed by a licensed Elevating Device Mechanic (EDM).

FREQUENCY OF REQUIRED SAFETY TESTS

All elevators installed on or after January 1, 2018:

Periodic Category 1 Tests shall be completed annually, and Periodic Category 5 Tests shall be completed every 5 years from the date of installation following Section 8.6 of the ASME A17.1/CSA B44 code edition the elevator construction was based upon.

For electric elevators installed before January 1, 2018:

The Periodic Category 1 Tests and the modified Periodic Category 5 Tests must be carried out at intervals not exceeding 5 years. The modifications of the Periodic Category 5 Tests are established within the Regulations (section 26) and as outlined in the included checklist. It has now been 5 years since this requirement was introduced and all elevators in this category shall have these tests carried out by December 31, 2023, if not already completed.

For hydraulic and roped hydraulic elevators installed before January 1, 2018:

The Periodic Category 1 Tests and modified Periodic Category 5 Tests must be carried out at intervals not exceeding 5 years. The modifications of the Category 5 Tests are established within the Regulations (section 27) and as outlined in the included checklist. It has now been 5 years since this requirement was introduced and all elevators in this category shall have this test carried out by December 31, 2023, if not already completed.

For all elevators operating in an industrial application regardless of the year of installation:

In addition to the above required frequency of periodic tests, industrial application use elevators shall have the Periodic Category 1 Test carried out annually. An industrial application elevator is an elevator that operates in an extreme environment such as caustic, corrosive, explosive, or wet conditions or operates with direct exposure to the weather.

MAINTENANCE AND INSPECTION RECORDS

Every owner of an elevating device and every contractor shall maintain a record or log (commonly in the form of a logbook) for each elevating device that they own or maintain. The record or log shall contain up-to-date data and entries on all maintenance, tests, and inspection activities. The record or log shall be available at the location of the elevating device to an inspector, maintenance mechanic, and other persons designated by the owner. The record or log shall be kept for at least five years from the date of the last entry.





Periodic Category 1 Tests Checklist for All Elevators

Elevating device owners shall ensure that the required Periodic Category 1 Tests are completed annually for elevators installed on or after January 1, 2018, and every 5 years if installed before January 1, 2018.

Catego	ry 1 Periodic Tests Checklist	for all Elevato	ors		
IIIS	Contractor Name & Licence #	ŧ			
	8.11.1.1.2 Periodic Tests Approved EDM:				
UNIT DETAILS	Unit Licence #				
ΤD	Elevator Type: Passenger	Freight	MRL	Other	
	Address				
	City	Buildir	ng Name		

CATEGORY 1 TESTS 8.6.4.19 Periodic Test Requirements	CONDITION/RESULTS/DA P = Passed NA= Not applica Or Values as applicable		DATE Day/ Month	MECHANIC'S SIGNATURE & EDM #		
Oil Buffers (ASME A17.1	Rules 8.6.4.19.1 / 8.6.5.14.3 (d) 8	& ASME A17.2 Guid	le Item 5.9	9.2.1(a))		
PRE-EXAMINATION						
TESTS						
POST-EXAMINATION						
Safeties (ASME A17.1 Ru	es 8.6.4.19.2 / 8.6.5.14.3 (c) & A	SME A17.2 Guide I	tems 2.29	.2(a-d) & 5.8.2)		
PRE-EXAMINATION						
TESTS Slow Speed						
POST-EXAMINATION						
Governors (ASME A17.1 2.13.2.2(a))	Rules 8.6.4.19.3 / 8.6.5.14.3 (b) 8	& ASME A17.2 Guid	le Items 2	.13.2.1(a) &		
EXAMINATION						
TESTS						
Slack-Rope Devices and Stop Motion Switch on Winding Drum Machines (ASME A17.1 Rules 8.6.4.19.4 & ASME A17.2 Guide Item 2.20)						
EXAMINATION						
TESTS						
Normal and Final Termin Guide 2.20, 2.28.2.1, 3.5.	al stopping Devices (ASME A17. 2 & 3.6.2.1)	1 Rules 8.6.4.19.5 /	8.6.5.14.	3 (a) & ASME A17.2		
EXAMINATION						
TESTS						



CATEGORY 1 TESTS 8.6.4.19 Periodic Test Requirements	CONDI P = Passed Or Values as	TION/RESULTS/DATA NA= Not applicable applicable	TEST YEAR	DATE Day/ Month	MECHANIC'S SIGNATURE & EDM #			
Firefighters' Emergency Operation (ASME A17.1 Rules 8.6.4.19.6 / 8.6.5.14.3 (e) & ASME A17.2 Guide Part 6)								
EXAMINATION								
Standby or Emergency Pe Item 1.17.2) * test of aux	•	on (ASME A17.1 Rules 8.6.4.1 ate power if applicable	9.7 / 8.6	.5.14.3 (f)	& ASME A17.2 Guide			
EXAMINATION								
TESTS								
•		TE A17.1 Rules 8.6.4.19.8 / 8. osing of Hoistway Doors and						
EXAMINATION								
TESTS								
Broken Rope, Tape, or Cl	nain Switch (A	SME A17.1 Rules 8.6.4.19.9 &	& ASME A	\17.2 Gui	de Item 3.26.1)			
EXAMINATION								
TESTS								
Functional Safety of SIL F	Rated Device(s	s) (ASME A17.1 Rules 8.6.4.19	9.10)					
EXAMINATION								
TESTS								
Ascending Car Overspeed Protection and Unintended Car Movement Devices (ASME A17.1 Rules 8.6.4.19.11)								
EXAMINATION								
TESTS				_				
Traction-Loss Detection I	Means (ASME	A17.1 Rules 8.6.4.19.12)						
EXAMINATION								
•	Occupant Evacuation Operation (ASME A17.1 Rules 8.6.4.19.14) – Not applicable per <i>The Passenger and Freight Elevator Regulations, 2017</i> Appendix Part 1 repealing ASME A17.1 Rule 2.27.11							

Emergency Communications (ASME A17.1 Rules 8.6.4.19.15 & ASME A17.2 Guide Item 1.6) * Required if						
applicable to hydraulic elevators						
EXAMINATION						
TESTS						



CATEGORY 1 TESTS	CONDITION/RESULTS/DATA	TEST	DATE	MECHANIC'S
8.6.4.19 Periodic Test	P = Passed NA= Not applicable	YEAR	Day/	SIGNATURE &
Requirements	Or Values as applicable		Month	EDM #
	way or Car Door Opening (ASME A17.1 Rul	les 8.6.4.	19.6 & AS	ME A17.2 Guide Item
1.18) * Required if	applicable to hydraulic elevators	ı	I	
EXAMINATION		ļ		
TESTS				
Relief Valve Verification Guide Item 2.31)	of Setting and System Pressure Test (ASM	IE A17.1 I	Rules 8.6.	5.14.1 & ASME A17.2
RELIEF TESTS				
PRE- EXAMINATION				
FULL SYSTEM TEST				
POST-EXAMINATION				
Hydraulic Cylinders and I	Pressure Piping (ASME A17.1 Rules 8.6.5.1	4.2 & ASI	ME A17.2	Guide Item 2.36)
PRE- EXAMINATION				
TESTS				
POST-EXAMINATION				
Emergency Terminal Spe & ASME A17.2 Guide Iten	red-Limiting Device and Terminal Stopping m 3.6.2.2)	Device ((ASME A1	7.1 Rules 8.6.5.14.3(h)
EXAMINATION				
TESTS				
Low Oil Protection opera	ation (ASME A17.1 Rules 8.6.5.14.3(i) & AS	ME A17.2	Guide Ite	em 2.39.2)
TESTS				
Flexible Hose and Fitting	Assemblies (ASME A17.1 Rules 8.6.5.14.4	& ASME	A17.2 Gui	de Item 2.34)
PRE- EXAMINATION				
TESTS				
Pressure Switch (ASME A	17.1 Rules 8.6.5.14.5 & ASME A17.2 Guide	Item 2.3	37)	
EXAMINATION				
TESTS				
Slack-Rope Device (ASMI	E A17.1 Rules 8.6.5.14.7 & ASME A17.2 Gu	ide Items	3.31.1 &	3.31.2)
PRE- EXAMINATION				
TESTS				
8.6.1.7.2 PERIODIC TEST CONTROLLER)	RECORD (SECURELY ATTACHED TO THE			



Category 5 Tests Checklist for All Elevators Installed Before January 1, 2018

Elevating device owners shall ensure that the required Periodic Category 1 and Category 5 Tests are completed every five years.

Category 5 Periodic Tests Checklist for All Elevators Installed Before January 1, 2018								
	Contractor Name & Licence #	ŧ						
IIIS	8.11.1.1.2 Periodic Tests Approved EDM:							
UNIT DETAILS	Unit Licence #							
T D	Elevator Type: Passenger	Freight	MRL	Other				
	Address							
_	City	Buildir	ng Name					

CATEGORY 5 TESTS	CONDI	TION/RESULTS/DATA	TEST	DATE	MECHANIC'S
Pre-2018	P = Passed	NA= Not applicable	YEAR	Day/	SIGNATURE &
	Values as app	olicable		Month	EDM #
Governors (ASME A17	.1 Rules 8.6.4.1	9.3 / 8.6.4.20.2 & ASME A17.2	2 Guide It	ems 2.13.	2.1(a) & 2.13.2.2(a))
EXAMINATION					
TESTS					
Safeties (ASME A17.1	Rules 8.6.4.19.2	2)			
PRE-EXAMINATION					
TESTS					
8.6.1.7.2 PERIODIC TEST RECORD (SECURELY ATTACHED TO THE CONTROLLER)					



Category 5 Tests Checklist for All Elevators Installed On or After January 1, 2018

Elevating device owners shall ensure that the required Periodic Category 1 Tests are completed annually and the Category 5 Tests are completed every five years.

Category 5 Periodic Tests Checklist for All Elevators Installed On or After January 1, 2018								
	Contractor Name & Licence #	!						
IIIS	8.11.1.1.2 Periodic Tests Approved EDM:							
ET/	Unit Licence #							
JNIT DETAILS	Elevator Type: Passenger	Freight	MRL	Other				
Z	Address							
	City	Buildir	ng Name					

CATEGORY 5 TESTS		TION/RESULTS/DATA	TEST YEAR	DATE Day/	MECHANIC'S SIGNATURE &		
8.6.4.20 PERIODIC TEST REQUIREMENTS	P = Passed Values as app	NA= Not applicable blicable	ILAN	Month	EDM #		
Car and Counterweight S 2.29.2(e))	Car and Counterweight Safeties (ASME A17.1 Rules 8.6.4.20.1 / 8.6.5.16.1 & ASME A17.2 Guide Item						
EXAMINATION							
TESTS							
POST-EXAMINATION							
Governors (ASME A17.1	Rules 8.6.4.20.	2 / 8.6.5.16.1 & ASME A17.2	Guide It	ems 2.13.	2.1(b) & 2.13.2.2(b))		
PRE-EXAMINATION							
TESTS							
POST-EXAMINATION							
Oil Buffers (ASME A17.1	Rules 8.6.4.20.	3 / 8.6.5.16.1 & ASME A17.2	Guide It	em 5.9.2.	1(b))		
PRE-EXAMINATION							
TESTS							
POST-EXAMINATION							
Driving Machine Brake(s) (ASME A17.1	Rules 8.6.4.20.4)					
PRE-EXAMINATION							
TESTS							
Emergency Terminal Stopping and Speed Limiting Devices (ASME A17.1 Rules 8.6.4.20.6 & ASME A17.2 Guide Items 2.28.2.1(b) & 5.3.2.1(b))							
EXAMINATION							
TESTS							



CATEGORY 5 TESTS 8.6.4.20 PERIODIC TEST REQUIREMENTS	CONDITION/RESULTS/DATA P = Passed NA= Not applicable Values as applicable	TEST YEAR	DATE Day/ Month	MECHANIC'S SIGNATURE & EDM #			
Power Opening of Doors (A Opening	Power Opening of Doors (ASME A17.1 Rules 8.6.4.20.7 & ASME A17.2 Guide Item 1.10.2(a)) – * Advanced Opening						
TESTS							
Leveling Zone and Leveling Speed (ASME A17.1 Rules 8.6.4.20.8 & ASME A17.2 Guide Item 1.10.2(b))							
TESTS							
Inner Landing Zone (ASME	A17.1 Rules 8.6.4.20.9 & ASME A17.2 G	uide Item	1.10.2.1)				
TESTS							
Braking System, Traction, a	nd Traction Limits (ASME A17.1 Rules	8.6.4.20.1	0)				
TESTS							
Emergency Brake (ASME A1	7.1 Rules 8.6.4.20.11 & ASME A17.2 G	uide Item	2.19.3.2)				
EXAMINATION							
TESTS							
Coated Ropes (ASME A17.1	Rules 8.6.5.16.2)						
MAGNETIC FLUX							
EXAMINATION							
Wire Rope Fastenings (ASM	E A17.1 Rules 8.6.5.16.3 & ASME A17.	2 Guide Ite	em 3.23)				
EXAMINATION							
Plunger Gripper (ASME A17	.1 Rules 8.6.5.16.4 & ASME A17.2 Guid	e Item 8.1	.0.3.2.5(n)))			
PRE-EXAMINATION							
TESTS							
Overspeed Valve(s) (ASME	A17.1 Rules 8.6.5.16.5 & ASME A17.2 G	Guide Item	5.15.2)				
EXAMINATION							
TESTS							
Class C2 Loading Freight Ele	evator (ASME A17.1 Rules 8.6.5.16.6 &	ASME A17	.2 Guide	Item 2.17.2.2)			
TESTS							
8.6.1.7.2 PERIODIC TEST RE CONTROLLER)	CORD (SECURELY ATTACHED TO THE						



References for Elevator Contractors and Elevator Mechanics

This section identifies references considered and used in the development of the bulletin and checklists for elevator contractors and mechanics to make use of in better understanding the requirements.

The Passenger and Freight Elevator Regulations, 2017 Sections 23 to 27

- 23 General Duty Re Safe Condition
- 24 Standards for Certain New Elevators
- 25 Standards for Certain Existing Elevators
- 26 Periodic Inspections and Tests for Existing Electric Elevators
- 27 Periodic Inspections Testing of Existing Hydraulic and Roped Hydraulic Elevators

Modifications to Periodic testing requirements for electric elevators installed prior to 2018 are referenced in section 26 and further reference to comply with Rules 8.6.4.19 and 8.6.4.20.2 of the ASME A17.1/B44 code at intervals not exceeding 5 years.

Modifications to Periodic testing requirements for hydraulic and roped hydraulic elevators installed prior to 2018 are referenced in section 27 and further reference to comply with Rules 8.6.5.14, 8.6.4.19.2, 8.6.4.19.3 and 8.6.4.20.2 of the ASME A17.1/B44 code at intervals not exceeding 5 years.

The specific test and inspection requirements are found within the ASME A17.1-2013/CSA B44-13, Safety Code for Elevators and Escalators Section 8.6 Maintenance, Repair, Replacement, and Testing. Further reference to Section 8.11 Periodic Inspections and Witnessing of Tests is used.

As a reminder that the term elevator is expanded to include additional devices, refer to the following ASME A17.1/CSA B44 code references for special case elevators directing one to their specific test requirements. These include:

- 8.6.6.1.1 Rack and pinion elevators shall be subject to all applicable tests specified in 8.6.4.19
 & 8.6.4.20 as well as any additional testing requirements for the equipment.
- 8.6.7.2.1 LU/LA elevators shall be subject to all applicable tests specified in 8.6.4.19, 8.6.4.20, and 8.6.5.14 through 8.6.5.16 as well as any additional testing requirements for the equipment.
- 8.6.10.1.1/8.6.10.2.1 Material lifts and dumbwaiters shall be subject to all applicable tests specified in 8.6.4.19 and 8.6.5.14 Part 7 ASME A17.2 as well as any other applicable requirements for the equipment.

All alternative testing means shall be pre-approved by TSASK before being conducted. (Reference ASME A17.1/CSA B44 code sections 8.6.11.10, 8.6.1.7.2 and 8.6.4.20)

Note: If any alternative testing methods are performed, it shall be indicated in the results/comment area of the applicable test (8.6.1.7.2) and the alternative test method report (8.6.11.10.4) shall be attached to this document to be accepted as completed and compliant.

The ASME A17.2 Guide for Inspection of Elevators, Escalators, and Moving Walks is used to provide references within the checklists to further guide the work of contractors and mechanics.

TSASK

Elevator and Amusement Ride Inspections

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