

**WHEELCHAIR LIFTS, INCLINED WHEELCHAIR LIFTS AND STAIRWAY
CHAIRLIFTS -ASME A18.1
ANNUAL MAINTENANCE AND TESTING CHECKLIST**

Maintenance Company: _____	Year: _____
Site Name: _____	WCL/WCLI/CL

Vertical Wheelchair Lift
 Inclined Wheelchair Lift
 Stairway Chairlift

Inside Platform (10.2.2.1)		Jan-Jun	Jul-Dec	Inside Runway Inspections (cont.)		Jan-Jun	Jul-Dec
1	Stop Switches			5	Traveling sheave		
2	Operating control devices			6	Platform safeties/guiding members		
3	Floor and landing sills			7	Runway construction		
4	Lighting			8	Pipes, wiring and ducts		
5	Emergency signal(s)			9	Runway clearances		
6	Door or gate			10	Traveling cables/ junction boxes		
7	Enclosure			11	Door and gate equipment		
8	Floor			12	Platform frame		
9	Signs/operating device symbols			13	Guide rail fastenings and equip.		
10	Rated load, platform area, data plate			14	Governor rope		
11	Ride			15	Governor releasing carrier		
Machine Inspections (10.2.2.2)				16	Wire rope fastenings/hitch plates		
1	Machine space enclosure			17	Suspension rope		
2	Guarding of exposed equipment			18	Compensation ropes and chains		
3	Overhead beam and fastenings			Outside Runway Inspections (10.2.2.4)			
4	Drive machine brake				Runway doors		
5	Traction drive sheaves				Runway door locking devices		
6	Gears and bearings				Runway enclosure		
7	Winding drum machine			Annual, 3-yr. and 5-yr. Tests (10.3.1)			Jan-Dec
8	Belt or chain-drive machine			Hydraulic cylinders (10.3.1.1)			
9	Traction sheaves			Safeties (10.3.1.2)			
10	Secondary and deflector sheaves			Governors (10.3.1.3)			
11	Rope fastenings			Slack rope device on winding drum (10.3.1.4)			
12	Slack rope devices			Norm. term. stopping devices (10.3.1.5)			
13	Governor, overspeed sw. and seal			Final terminal stopping devices (10.3.1.5)			
14	Platform safeties			Broken rope, chain or tape switches (10.3.1.6)			
15	Hydraulic power unit			Slack rope devices on roped hydraulic (10.3.1.7)			
16	Control valves			Unexposed portions of pistons (3-yr. 10.3.2.1)			
Inside Runway Inspections (10.2.2.3)v				Platform safeties full load test (5-yr. 10.3.3.1)			
1	Platform, overhead/deflector sheaves			Governors (5-yr. 10.3.3.2)			
2	Counterweight			Ropes (5-yr. 10.3.3.4)			
3	Head room			Rope fastenings (5-yr. 10.3.3.5)			
4	Slack rope devices						

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10.3 Inspection and Test Periods. In addition to the routine inspections and tests (see reverse side), the applicable inspections and tests specified in 10.3.1 shall be performed in intervals no longer than 1 year, the applicable inspections and tests specified in 10.3.2 shall be made at intervals not longer than 3 years and the applicable inspections and tests specified in 10.3.3 shall be made at intervals not longer than 5 years.

10.3.1 One Year Inspection and Test Requirements

10.3.1.1 Cylinders. Cylinders that are exposed shall be visually inspected. Cylinders that are not exposed shall be tested. After a minimum of 15 minutes a change in platform position that cannot be accounted for by visible oil leakage, valve leakage, or temperature change indicates a leak in the unexposed portion of the cylinder or piping.

10.3.1.2 Safeties

10.3.1.2.1 All working parts of platform safeties shall be inspected to determine that they are in satisfactory operating condition.

10.3.1.2.2 Safeties shall be subjected to the following tests with no load in the platform:

- (a) Type A, B, or C governor operated safeties shall be operated by tripping the governor by hand with the platform operating at the slowest operating speed in the down direction. In this test the safety shall bring the platform to rest promptly. In the case of Type A, B or C safeties employing rollers or dogs for application of the safety, the rollers or dogs are not required to operate their full travel.
- (b) Governor operated wood guide rail safeties shall be tested by tripping the governor by hand with the platform at rest and moving the platform in the down direction until it is brought to rest by the safety and the hoisting ropes slip on the traction machines or become slack on winding drum machines.
- (c) Type A and wood guide-rail safeties without governors, which are operated as a result of the breaking or slackening of the hoisting ropes, shall be tested by obtaining the necessary slack rope to cause it to function.

10.3.1.3 Governors. Governors shall be inspected and operated manually to determine that all parts, including those which impart the governor pull-through tension to the governor rope, operate freely.

10.3.1.4. Slack-Rope Devices on Winding Drum Machines. Slack-rope devices on winding drum machines shall be operated manually and inspected to determine conformance with the applicable requirements.

10.3.1.5 Normal and Final Terminal Stopping Devices. Normal and final terminal stopping devices shall be inspected and tested to determine conformance with the applicable requirements.

10.3.1.6 Broken Rope, Tape, or Chain Switch. Where a rope, tape, or chain is used to connect the motion of the platform to the machine room normal limit, the switch that sense failure of this connection shall be tested.

10.3.1.7 Slack-Rope Device on Roped-Hydraulic Machines. Slack-rope devices for roped-hydraulic lifts will be tested for conformance by lowering the platform or blocking and creating slack rope causing the device to operate. The slack rope can also be obtained by operation of the safety during the annual safety test.

10.3.2 Three-Year Inspection and Test Requirements

10.3.2.1 Unexposed Portions of Pistons. Piston rods of roped water hydraulic lifts shall be exposed, thoroughly cleaned, and inspected for wear or corrosion.

The piston rods shall be replaced if at any place the diameter is less than the root diameter of the threads.

10.3.3 Five-Year Inspection and Test Requirements.

10.3.3.1 Platform Safeties. Types A, B, and C safeties, except those operating on wood guide rails and their governors, shall be tested with rated load in the platform.

Test shall be made by tripping the governor by hand at the rated speed. The following operational conditions shall be checked:

- (a) Type B safeties shall stop the platform with the rated load within the required range of stopping devices for which the governor is tripped.
- (b) For Type A safeties and Type A safety parts of Type C safeties, there shall be sufficient travel of the safety rollers or dogs remaining after the test to bring the platform and its rated load to rest on safety application at governor tripping speed. A metal tag shall be attached to the safety-releasing carrier in a permanent manner, giving the date of the safety test together with the name of the person or firm who performed the test.

10.3.3.2 Governors.

10.3.3.2.1 The tripping speed of the governor and the speed at which the governor overspeed switch, where provided, operates shall be tested to determine conformance with the applicable requirements and the adjustable means shall be sealed.

10.3.3.2.2 The governor rope pull-through force shall be tested to determine conformance with the applicable requirements and the adjustment means shall be sealed.

10.3.3.2.3 After these tests, a metal tag indicating the date of the governor tests together with the name of the person or firm that performed the tests shall be attached to the governor in a permanent manner.

10.3.3.3 Brake. The brake shall be tested by placing 125% of rated load in the platform and running it to the lowest landing by normal operating means. The driving machine shall safely lower, stop, and hold the platform with this overload.

10.3.3.4 Ropes. Ropes used on roped-hydraulic lifts shall be inspected. Coated ropes shall be required to have a magnetic flux test capable of detecting broken wires in addition to a visual test.

10.3.3.5 Fastenings. Wire rope fastenings on roped-hydraulic lifts utilizing hydraulic jacks equipped with pistons that are hidden by cylinder head seals shall also be inspected even if it is temporarily necessary to support the platform by other means and disassemble the cylinder head.