

Exhibit 5 - Sample Hydraulic Elevator Maintenance Log

<i>Work Center (Route)</i>	
<i>Site Name</i>	
<i>Address 1</i>	
<i>Address 2</i>	
<i>City, State Zip</i>	
<i>Equipment #</i>	
<i>Equipment Description</i>	

Hydraulic Elevator Maintenance Control Program Logbook

Customer and Equipment Information

Local Branch		Local Branch Phone #	
Building Name		Building ID Number	
Address		City, State, Zip	
Equipment #		Equipment Description	
Equipment Category		Manufacturer	
Maintenance Work Center		Local Conveyance #	

Maintenance Method Schedule

Plan Start Date:

Modules	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
B: Basic												
D: Door Operator												
L: Landing Door												
S: Shaft												
M: Machinery												
C: Control Panel												
Z: Signalization												
FS: Fire Service												

Initial and date box when Module performed.

This Logbook must remain On-Site for 5 years.

For detailed information regarding performance tasks of the maintenance modules listed within, please refer to code item numbers referenced below.

Hydraulic Elevator Maintenance Log

Building Name:			Equipment ID: HYDRAULIC			Phone #:			Equipment #:						
			Contractor Reg. #:			Conveyance ID:			Plan Start Date:						
Maintenance Requirements: 8.6			NA	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mod ID	Item	Tasks		1) Enter the date of the maintenance visit in the row below. 2) Enter initials in the appropriate month for each task completed.											
Inside the Car															
B	8.6.4.13.1(c)	Door reopening devices.													
DO	8.6.4.13.2	Door closing force/Kinetic energy													
B	8.6.4.15	Car Emergency System: Two-way communication													
S	8.6.4.15	Emergency power battery and car ventilation system													
B	8.6.4.16	Stopping accuracy													
Machine Room															
C	8.6.1.2.1(e)	SIL rated device documentation													
C	8.6.1.6.3	Controllers, wiring and wiring diagrams													
M	8.6.1.5.1	Code data plate													
M	8.6.1.6.5:	Fire extinguishers													
M	8.6.4.1.2	Suspension rope lubrication (Roped Hydro)													
M	8.6.4.8	Machinery / Control spaces													
M	8.6.4.12	Overspeed governor (Roped Hydro)													
M	8.6.5.1	Pressure Tanks													
M	8.6.5.2	Piston Rods (Roped Hydro)													
M	8.6.5.4	Tank Levels													
M	8.6.5.5.1	Gland Packings and Seals													
M	8.6.5.6	Flexible Hoses and Fittings													
M	8.6.5.7	Record of oil usage													
M	8.6.5.9	Relief valve setting													
M	8.6.5.12	Anti-Creep and Low Oil Protection													
Top of Car (Hoistway)															
S	8.6.4.3	Lubrication of Guide Rails													
S	8.6.4.9	Cleaning of Top of Cars													
S	8.6.4.7	Cleaning of Hoistways													
S	Additional tasks for Roped Hydros														
S	8.6.4.1.1	Suspension Rope Cleaning													
S	8.6.4.1.3	Suspension Rope Tension													
S	8.6.4.2	Governor Wire Ropes													
S	8.6.4.5	Safety Mechanisms													
S	8.6.5.10	Run-by / Clearances after Re-roping / Shortening													

Hydraulic Elevator Maintenance Log

Building Name:			Equipment ID:								Equipment #:				
Maintenance Requirements: 8.6			NA	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mod ID	Item	Tasks		1) Enter the date of the maintenance visit in the row below. 2) Enter initials in the appropriate month for each task completed.											
Top of Car (Landing Doors)															
LD	8.6.4.13.1(a)	Hoistway door interlocks													
LD	8.6.4.13.1(d)	Vision panels and grills													
LD	8.6.4.13.1(e)	Hoistway door unlocking devices and escutcheons													
LD	8.6.4.13.1(f)	Hangers, tracks, door rollers, up-thrusts, safety retainers													
LD	8.6.4.13.1(g)	Astragals, resilient members, space & sight guards													
LD	8.6.4.13.1(h)	Sills, bottom guides, fastenings, condition, engagement													
LD	8.6.4.13.1(i)	Engaging rollers													
LD	8.6.4.13.1(j)	Interconnecting means													
LD	8.6.4.13.1(k)	Door closers, where required													
Outside Hoistway (Car Door equipment)															
DO	8.6.4.13.1(b)	Car door electric contacts or car door interlocks													
DO	8.6.4.13.1(d)	Vision panels and grilles, where required													
DO	8.6.4.13.1(f)	Hangers, tracks, door rollers, up-thrusts, safety retainers													
DO	8.6.4.13.1(g)	Astragals, resilient members, door space guards, and sight guards													
DO	8.6.4.13.1(h)	Car door gibs, brackets, fire tabs and sills													
DO	8.6.4.13.1(i)	Clutches, engaging vanes, retiring cams													
DO	8.6.4.13.1(j)	Interconnecting means													
DO	8.6.4.13.1(l)	Door restrictors, where required													
Outside Hoistway (General)															
S	8.6.4.14	Hoistway access switches													
Pit															
S	8.6.4.7	Cleaning of pits													
LD	8.6.4.13.1(h)	Sills, bottom guides, fastenings, condition and engagement													
S	8.6.5.3	Water Hydraulic Plungers													
S	8.6.5.5.1	Gland Packings and Seals													
B	8.6.5.5.2	Collection of Oil Leakage													
S	8.6.5.11.1	Corrosion Protection Monitoring													
S	8.6.5.11.2	Corrosion Protection Loss													
S	8.6.5.13	Overspeed Valve Setting													
S	8.6.4.22	Seismic devices													

Hydraulic Elevator Maintenance Log

Building Name:			Equipment ID:								Equipment #:				
Maintenance Requirements: 8.6			NA	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mod ID	Item	Tasks		1) Enter the date of the maintenance visit in the row below. 2) Enter initials in the appropriate month for each task completed.											
<i>Pit (continued)</i>															
S	Additional tasks for Roped Hydros														
S	8.6.4.4	Oil buffers													
S	8.6.4.5	Safety mechanisms													
S	8.6.4.11	Car and counterweight run-by													
S	8.6.4.18	Compensation sheaves and switches													
S	8.6.5.10	Run-by and clearances after re-roping or shortening													
Additional 8.6.4 & 8.6.5 Maintenance Tasks															

Item	8.6.11: Special Provisions	NA	OK	Comments (Location of instructions, etc)
8.6.11.1	Firefighters' Emergency Operation key log			
8.6.11.2	Two-way communication means			
8.6.11.3	Access keys			
8.6.11.4	Cleaning of a Car & Hoistway Transparent Enclosure			
8.6.11.5	Emergency Evacuation Procedures for Elevators			
8.6.11.7	Operating Instructions for Means Specified in 2.7.5.1.1 or 2.7.5.2.1			
8.6.11.8	Egress and Reentry Procedure From Working Areas in 2.7.5.1.3 or 2.7.5.2.3			
8.6.11.9	Operating Instructions for Retractable Platforms			
8.6.11.10	Category 5 Tests Without Load Via Alternative Test Methodologies			
8.6.11.11:	Examination After Shutdown Due to Traction Loss			
8.6.11.12	Examination After Safety Application			
8.6.11.13	Occupant Evacuation Operation			
8.6.11.14	Examination After Shutdown Due to Broken-Suspension-Member Detection Means			

Hydraulic Elevator Category 1, 3 and 5 Test Log

Building Name:	Equipment ID:	Equipment #:
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All work performed must be Initialed and Dated. All Initials must match those in the Technician Signature List.

Type	Code Reference	Description of Task	NA	Date	Initials	Deficiencies	Corrective Actions
Cat 1	8.6.5.14.1	Relief Valve Verification of Setting and System Pressure Test					
	8.6.5.14.2	Hydraulic Cylinders and Pressure Piping					
	8.6.5.14.3(a)	Normal Terminal Stopping Devices					
	8.6.5.14.3(b)	Governors					
	8.6.5.14.3(c)	Safeties					
	8.6.5.14.3(d)	Oil Buffers					
	8.6.5.14.3(e)	Firefighters' Emergency Operation					
	8.6.5.14.3(f)	Standby or Emergency Power Operation					
	8.6.5.14.3(g)	Power Operations of Door System					
	8.6.5.14.3(h)	Emergency Terminal Speed-Limiting Device and Emergency Terminal Stopping Device					
	8.6.5.14.3(i)	Low Oil Protection Operation					
	8.6.5.14.4	Flexible Hose and Fitting Assemblies					
	8.6.5.14.5	Pressure Switch					
	8.6.5.14.6	Power Operation of Door System					
	8.6.5.14.7	Slack-Rope Device					
8.6.4.19.17	Earthquake Operation						
Cat 3	8.6.5.15.1	Unexposed Portions of Pistons					
	8.6.5.15.2	Pressure Vessels					
Cat 5	8.6.4.20.1	Car and Counterweight Safeties					
	8.6.4.20.2	Governors					
	8.6.4.20.3	Oil Buffers					
	8.6.5.16.2	Coated Ropes					
	8.6.5.16.3	Wire Rope Fastenings					
	8.6.5.16.4	Plunger Gripper					
	8.6.5.16.5	Overspeed valves					
	8.6.5.16.6	Class C2 loading on Freight Elevators					

Firefighters' Emergency Operation Log 8.6.11.1

Building Name:	Equipment ID:	Equipment #:	Year:										
Building Contact Name:	Building Contact Phone:	Local Conveyance #:											
<p>Note to Owner: The intervals are to be set monthly for the keyswitch(es) (8.6.11.1) and annually for smoke and heat detectors (NFPA-72). The months must be set by you or your designated management person. The tasks must be completed by Authorized Personnel, trained in the proper operation of the devices and access to the elevator hoistway (if necessary). The building owner or designee shall ensure deficiencies are promptly corrected. Where a defective part directly affecting the safety of the operation is identified, the equipment shall be taken out of service until the defective part has been adjusted, repaired, or replaced (8.6.1.2.2).</p>													
Written record of the findings of the Firefighters' Emergency Operation required by 8.6.11.1.	NA	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Initial and Date Completion in boxes below.												
Phase I and II Keyswitch operation:													
a) Phase I keyed to On, elevator(s) arrived at lobby, door(s) remain open. Elevator responded accordingly.													
b) In car Phase II keyed to on, run elevator at least one floor. Elevator responded accordingly.													
c) Return Phase II keyswitch to Off, then Phase I to the Off position. Elevator operates normally.													
Smoke and heat detector tests.													
Initial and Date Completion in boxes below.													
Main Lobby smoke detectors tested, elevator(s) returned to alternate floor, parked with doors open.													
Test remaining lobby smoke detectors on remaining floors associated with recall, elevator returned to main lobby level, parked with doors open.													
Machine room smoke detector tested, elevator returned to designated landing, parked with doors open.													
Hoistway smoke detector tested, elevator returned to designated level, parked with doors open (test may require assistance of elevator mechanic).													
Machine room heat detector tested, initiating shunt trip activation.													
Hoistway heat detector tested, initiating shunt trip activation.													
Heat detectors are 135 degree fixed.													
To the right: Print name, signature and initials of each person who completed tasks on these records. The initials are to match the completed tasks in associated cells.	Print Name		Signature		Initials								
	Print Name		Signature		Initials								
	Print Name		Signature		Initials								
	Print Name		Signature		Initials								

Hydraulic Fluid Log: 8.6.5.7

Building Name:	Equipment ID:	Equipment #:	Year:
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Record of Oil Usage: If part of cylinder and/or piping is not exposed for visible examination, a written record shall be kept of the quantity of hydraulic fluid added to the system and emptied from leakage collection containers and pans. The written record shall be kept in the machine room. When the quantity of hydraulic fluid loss cannot be accounted for, the unit must be removed from service and the test specified in 8.6.5.14.1 and 8.6.5.14.2 shall be made.

Note: The tank fluid level should be kept at the permanently indicated level (Tank Reference Mark) with the car floor level at the bottom landing. Only approved hydraulic fluid should be used. Check with your Supervisor for the approved fluid.

Location of Hydraulic Fluid tank Reference Mark: For example, Sight Glass on front _____ of tank or Tag on inside front left corner. Note any changes below.

All work performed must be Initialed and Dated. All Initials must match those in the Technician Signature List.

Month/Day	No Change	Source of Added Fluid		Source of Loss		Reason for adding or removing fluid to the system. Provide comment below if Tank Reference Mark has changed. Explain from where the fluid is leaking.	Amount added, including fluid recycled from leakage collection containers or pans <input type="radio"/> Gallons or <input type="radio"/> Liters	Fluid Level in Tank to Reference Mark. <input type="radio"/> Inches or <input type="radio"/> Millimeters	Initials
		New Fluid added to the system	From leakage collection containers or pans	System leaks or removal	Unknown				
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