

Functional Performance Test

[Project Name]

System: **Elevators**

Tag: Elevator #1

Service: Basement Thru Eleventh

Functional Performance Test	Pass	Fail	Remarks:
Basement Level Hall Push Button (Up) Control			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Load the elevator to its maximum capacity and confirm that the elevator relevels.			
First Floor Hall Push Button Control (Up)			
Initiate hall push button with the up arrow and confirm the up button is illuminated.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
Confirm the digital hall car position indicator matches the current location of the car.			
When the car arrives an audible signal is heard the hall lantern up arrow is illuminated and the LED indicator displays the number one.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Second Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			

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Functional Performance Test	Pass	Fail	Remarks:
Third Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Fourth Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Fifth Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Six Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			

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Six Floor Hall Push Button Control (Up) (Continued)			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Seventh Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Eighth Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Ninth Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives and audible signal is			

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heard and the hall lantern up arrow is illuminated.			
Ninth Floor Hall Push Button Control (Up) (Continued)			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Tenth Floor Hall Push Button Control (Up)			
Initiate the hall push button.			
Confirm the push button is illuminated with an up arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern up arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Eleventh Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within 1/2" of the landing.			
Tenth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			

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Ninth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Eighth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Seventh Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Sixth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Fifth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			

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Fifth Floor Hall Push Button Control (Down) – (Continued)			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Fourth Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Third Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
Second Floor Hall Push Button Control (Down)			
Initiate the hall push button.			
Confirm the push button is illuminated with a down arrow.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
When the car arrives an audible signal is heard and the hall lantern down arrow is illuminated.			
First Floor Hall Push Button Control (Down)			
Initiate hall push button with the down arrow and confirm the down button is illuminated.			
Confirm the lobby panel indicates the correct direction of the car and floor designation.			
Confirm the digital hall car position indicator matches the current location of the car.			

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First Floor Hall Push Button Control (Down) – (Continued)			
When the car arrives an audible signal is heard the hall lantern down arrow is illuminated and the LED indicator displays the number one.			
Confirm the door remains open for 3 seconds minimum.			
Confirm the car is within ½” of the landing.			
In Car Control			
From the Basement Location enter the car and initiate the first floor level push button. As the doors begin to close place a restriction between the doors. Confirm doors reopen when sensing the restriction.			
Initiate all floor push buttons on the <u>main</u> car station. Confirm the car station push buttons are illuminated.			
Once the car reaches each floor confirm the audible indicator is operating.			
Confirm the visual indicator displays the correct floor number.			
Confirm the car doors open.			
At the eleventh floor enter the car and initiate all floor push buttons on the <u>auxiliary</u> car station. Confirm the push buttons are illuminated.			
Confirm the visual indicator displays the correct floor number as the car passes.			
Once the car reaches the intended floor confirm the audible indicator is operating.			
Confirm the car doors open.			
Phase I Emergency Recall Operation – Fire Alarm Initiation			
Activate the smoke detector at the basement level and confirm the elevator returns to the level of recall.			
Confirm the car door opens.			
Activate the smoke detector on the first floor and confirm the elevator returns to the alternate recall level.			

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<i>Functional Performance Test</i>	<i>Pass</i>	<i>Fail</i>	Remarks:
Phase I Emergency Recall Operation – Fire Alarm Initiation (Continued)			
Activate the smoke detector on the second floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the third floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the fourth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the fifth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the sixth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the seventh floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the eighth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the ninth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector on the tenth floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			

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Functional Performance Test	Pass	Fail	Remarks:
Phase I Emergency Recall Operation – Fire Alarm Initiation (Continued)			
Activate the smoke detector on the eleventh floor level and confirm the elevator returns to the recall level.			
Confirm the car door opens.			
Activate the smoke detector in the machine room and confirm the elevator returns to the recall level.			
Confirm the fireman’s hat signal is illuminated intermittently.			
Confirm the car door opens.			
Activate the heat detector in the machine room and confirm the elevator returns to the recall level.			
Confirm the fireman’s hat signal is illuminated intermittently.			
Confirm the car door opens.			
Activate the smoke detector in the hoist way and confirm the elevator returns to the recall level.			
Confirm the fireman’s hat signal is illuminated intermittently.			
Confirm the car door opens.			
Activate the heat detector in the hoist way and confirm the elevator returns to the recall level.			
Confirm the fireman’s hat signal is illuminated intermittently.			
Confirm the car door opens.			
Phase I Emergency Recall Operation – Fire Recall Initiation			
Park a car at a landing other than the recall level and place the fire recall key in the “On” position. Confirm the car doors close and the car returns nonstop to the level of recall and the doors open and remain open.			
The audible signal remains on until the car reaches the level of recall.			
The fireman’s hat is illuminated.			
Push hall call buttons and confirm the car remains at recall level.			

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Functional Performance Test	Pass	Fail	Remarks:
Phase I Emergency Recall Operation – Fire Recall Initiation (Continued)			
Push in car call buttons and confirm the car remains at recall level.			
Confirm door reopening devices sensitive to smoke or flame are inoperative.			
The car position indicator at the designated landing and building control station are active.			
The in car stop switch is inoperative.			
Place the fire recall key to the “Reset” position and then to the “Off” position and confirm the car is out of “Fire Recall”			
Phase II Emergency Recall Operation – Fire Recall Initiation			
Place the “Fire Operation” key in the On position at the recall level.			
Initiate the hall push buttons and confirm there is no response.			
Confirm door reopening devices are disabled.			
Confirm car position indicators are active at the recall level and at the building control station.			
Confirm landing position indicators are not active.			
Confirm the level indicator at the fire command station and at the level of recall is active.			
Confirm the “Call Cancel” button extinguishes any calls.			
Hold the door close button and when the door is half closed release the button. Confirm once the button is released the door reopens.			
Hold the door close button and confirm the door closes.			
With the door closed hold the door open button and when the door is half open release the door open button and confirm the door closes.			
With the door closed hold the door open button and confirm the door opens.			
Push the second floor selection button and confirm the car proceeds to the second floor landing.			

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Phase II Emergency Recall Operation – Fire Recall Initiation (Continued)			
At the second floor open the doors and place the fire operation switch in the “Hold” position and confirm the car remains at this landing and the doors remain open.			
At the second floor place the fire operation to the “Off” position and confirm the doors close and the car returns to the recall level.			
Inspection Operation – In Car			
Place the car in “Inspection” operation.			
Push the hall buttons and confirm car does not operate and the automatic door operation is disabled.			
Confirm car moves up and down under “Inspection” operation when pressure activated type devices are pushed.			
Initiate Phase I Emergency Recall and confirm that a continuous audible sound is initiated and the car remains under inspection operation.			
Place the car in “Normal” operation.			
Inspection Operation – Top of Car			
Place the car in “Inspection” operation by initiating the stop switch, place the transfer switch to “Inspection” and push the “Enable” button.			
Push the hall buttons and confirm car does not operate and the automatic door operation is disabled.			
Confirm car moves up and down under “Inspection” operation when pressure activated type devices are pushed.			
Initiate Phase I Emergency Recall and confirm that a continuous audible sound is initiated and the car remains under inspection operation.			
Place the car in “Normal” operation.			
Pit Stop Switch			
Initiate pit stop switch to the “Stop” position and confirm that the elevator operation is halted and an audible device sounds.			

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Pit Stop Switch (Continued)			
Push the hall button on any level and confirm car does not operate and the automatic door operation is disabled.			
Initiate Phase I Emergency Recall and confirm that a continuous audible sound is initiated and the car remains under inspection operation.			
Car Lighting			
With the car door closed confirm that a minimum of 5 foot-candles are provided.			
Fail the building power to the car lighting and confirm that the auxiliary lighting is automatically turned on.			
With the auxiliary lighting turned on confirm that the battery charge is held for 4 hours.			
Emergency Communication Operation			
Push the "Help" button and confirm two-way communication is initiated.			
The visual activation is observed once two-way communication is active.			
Two-way communication is terminated only by someone outside the car.			
Disconnect normal power and confirm that two-way communication remains active for 4 hours.			
Emergency Power Operation			
Coordinate with the electrical contractor.			
Place the elevator selector switch to either elevator two or three.			
Have the electrical contractor simulate a power outage.			
Confirm the "Elevator Emergency Power" indicator is illuminated at the central panel.			
Confirm elevator car returns to the first floor level.			
Confirm that once the car is at the first floor level it will not operate.			
Place the selector switch to elevator number one and confirm the elevator operates.			

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Emergency Power Operation (Continued)			
Confirm elevator number two, three and four do not operate with the selector switch at number one.			

Number	Date	Remark
1		
2		
3		