

# [Project Name]

System: Fire Alarm System

Functional Performance Check	rformance Check Pass Fail Remarks:			
Fire Alarm Control Panel & Fire Alarm	n Annunciato	r Panel		
Notify all building occupants that				
testing will be conducted.				
Fire alarm contractor shall have				
personnel with 2-way radios at the fire				
alarm control and annunciator panels				
and at Monitoring System – prior to				
start of testing				
Fire suppression systems are secured				
to prevent inadvertent actuation.				
Verify that the fire alarm control panel				
and fire alarm annunciator panel are				
free from alarms, troubles and				
supervisory signals				
Activate the system supervisory				
service audible signal and verify that				
the LED is illuminated				
Pressing the "Supervisory				
Acknowledge Key" silences the audible				
signal on both the fire alarm control	· (7)			
and annunciator panel				
Ground fault current indication shall be				
verified				
Power Supply		Г		
Disconnect 24v dc secondary power				
supply to simulate loss of batteries				
Verify that the fire alarm control and				
annunciator panel receive notification				
of power loss.				
Initiate an alarm and verify that all				
annunciation devices operate				
Reconnect secondary power supply				
Verify that trouble is cleared from the				
fire alarm control and annunciator				
panel				
Disconnect primary power supply by				
opening circuit breaker				
Verify that the fire alarm control and				
annunciator panel receive trouble				
notification of power loss				



# [Project Name]

System: Fire Alarm System

Functional Performance Check	Pass	Fail	Remarks:
Power Supply (continued)			
Measure the systems standby and			
alarm current demand and verify the			
ability of the batteries to supply power			
Initiate an alarm and verify that all			
annunciation devices operate. Test			
shall be conducted for a minimum of			
five minutes			
Reconnect primary power			
Verify that trouble is cleared from the			
fire alarm control and annunciator			
panel			
Verify all fuse ratings and supervision			
Batteries	T		
Prior to any test, ensure that all system			
software stored in volatile memory is			
protected from loss			
Inspect batteries for corrosion or			
leakage		_	
Verify all connections are tight	<b>\(/)</b>		
Electrolyte level in lead acid batteries			
shall be visually inspected			
Verify batteries are in operational			
condition			
Verify batteries are connected to			
battery charger.			
Verify batteries are fully charged			
Discharge Test			
Load test the batteries per			
manufacturers recommendations and			
verify that voltage level does not fall			
below specified level (an artificial load			
equal to the fire alarm full load			
connected to the battery shall be			
permitted for this test)			
Load Voltage Test			



# [Project Name]

System: Fire Alarm System

Functional Performance Check	Pass	Fail	Remarks:
Batteries (continued)			
With the battery charger disconnected,			
the terminal voltage shall be measured			
while supplying the maximum load.			
The voltage level shall not fall below			•
specified level (an artificial load equal			
to the fire alarm full load connected to			
the battery shall be permitted for this			
test)			
Primary Battery Load Voltage Test			
With batteries fully charged and			
connected to charger the voltage			
across the batteries shall be measured			
with a voltmeter and voltage shall be			
verified and shall be per manufacturers			
recommendations			
Under load, the battery shall perform in			
accordance with manufacturer			
recommendations			
Conductors	. 0	1	
Verify that there is no stray voltage			
between conductors or conductors and			
ground. Max stray voltage shall not			
exceed manufacturers			
recommendations (or 1vac/dc)			
Verify conductor isolation from ground			
Verify conductor to conductor isolation			
Verify loop resistance does not exceed			
the limits specified per manufacturers			
recommendations. With each initiating			
and indicating circuit conductor pair			
short circuited at far end, the			
resistance of each circuit shall be			
measured and recorded			
Verify that a fault in any circuit			
monitored for integrity shall result in a			
trouble indication at the fire alarm			
control panel			



## [Project Name]

System: Fire Alarm System

Functional Performance Check	Pass	Fail	Remarks:
Conductors (continued)			
Verify that each initiating device,			
notification appliance, and signal line			
circuit shall be tested to confirm that			
the installation conductors are			
monitored for integrity			
Verify that the fiber optic line from the			
Rowlett Building is terminated per the			
bid documents			
The fiber optic line shall be tested in			
accordance with the manufacturers			
recommendations with an optical time			
domain reflectometer used to measure			
the relative power loss of the line. This			
relative figure shall be recorded in the			
fire alarm control panel. If the power			
level drops 2 percent or more from the			
recorded value, the issue shall be rectified			
Verify that a fault in any supervised circuit shall result in a trouble indication	<b>(</b> ()		
at the fire alarm control panel.			
Each initiating device, notification			
appliance, and signaling	~		
Central Station Reporting			
Verify central supervising station is			
receiving notification of alarm			
Verify central supervising station is			
receiving notification of trouble			
Verify central supervising station is			
receiving notification of supervisory			
signal			
System Reset	T		
Press the "System Reset" button on			
the FACP and verify the panel returns			
to normal state.			
System Override	T		
Activate the fire alarm system and then			
silence the system			



## [Project Name]

System: Fire Alarm System

Functional Performance Check Pass Fail Remarks:				
System Override Continued				
Activate another initiation device and				
verify the alarm signal overrides the				
silence feature				
Reset system and verify it returns to			*	
normal operation				
Remove a smoke detector head and				
verify a trouble signal is received				
Activate an initiation device and verify				
it overrides the trouble signal				
Reset system and verify it returns to				
normal operation		4		
Activate a s sprinkler tamper switch				
and verify a supervisory signal is received				
Activate an initiation device and verify				
it overrides the supervisory signal				
Reset system and verify it returns to				
normal operation				
First Floor				
Exit Vestibule 100A				
(1) Strobe Unit				
Activate the fire alarm system and				
verify the following:				
The strobe is in sync with all other				
strobe devices				
Verify the Candela Rating				
Public Elev. A				
(1) Smoke Detector with Elevator				
Control				
Activate the smoke detector per manufac	cturers recom	mendations	and verify the following:	
The fire alarm system is activated				
The address indicated by the FACP is:				
The Location indicated by the FACP is:				
The Type of device indicated by the				
FACP is:				
The Elevator is recalled				



#### [Project Name]

System: Fire Alarm System

Number	Date	Remark
1		
2		×
3		
4		
5		