



FIRE DETECTION AND ALARM SYSTEM

Legend



Remarks

Y - Satisfactory N – Unsatisfactory N/A – Not Applicable

Notes

1. Fill up color shaded cells with "Y", "N", or "N/A".
2. Additional notes can be added at the last page of this guide.
3. Methods / Frequencies WITHOUT COLOR are referred to Manufacturer's Recommendation / Technical Specialists.
4. Methods of Inspection, Testing and Maintenance shall be based on Table 14.3.1 and Table 14.4.3.2 of NFPA 72 and/or Manufacturer's recommendation.

Code	Item	Frequency (Y, N, N/A)	
		CONTRACTOR	
		SEMI ANNUALLY	ANNUALLY
XII.i	INSPECTION		
XII.i1	All Equipment		Y
XII.i2	Control Equipment Fire alarm system monitored for alarm, supervisory and trouble signals		
	- Fuses		Y
	- Interfaced equipment		Y
	- Lamps and LEDs		Y
	- Primary (main) power supply		Y
	- Trouble signals	Y	
XII.i3	Control Equipment Fire alarm system unmonitored for		



	alarm, supervisory and trouble signals		
	- Fuses	Y	
	- Interfaced equipment	N/A	
	- Lamps and LEDs	Y	
	- Primary (main) power supply	Y	
	- Trouble signals	Y	
XII.i4	Supervising station alarm systems – Transmitters		
	- Digital Alarm communicator transmitter (DACT)		N/A
	- Digital Alarm radio transmitter (DART)		N/A
	- McCulloh transmitter - Radio alarm transmitter (RAT)		N/A
	- All other types of communicator		N/A
XII.i5	In-building fire emergency voice/alarm communication equipment	N/A	
XII.i6	Batteries		
	- Lead acid	Y	
	- Nickel cadmium	N/A	
	- Primary (dry cell)	N/A	
	- Sealed lead-acid	N/A	
XII.i7	Remote Annunciators	N/A	
XII.i8	Notification appliance circuit power Extenders		N/A
XII.i9	Remote power supplies		N/A
XII.i10	Transient suppressors	N/A	
XII.i11	Fiber-optic cable connection		N/A



XIV.i12	Initiating devices		
	- Air sampling	N/A	
	- Duct detector	N/A	
	- Electromechanical releasing Devices	N/A	
	- Fire extinguishing systems or suppression system(s) switches	N/A	
	- Manual fire alarm boxes	Y	
	- Heat detectors	Y	
	- Radiant energy fire detectors	N/A	
	- Video image smoke and fire Detectors	N/A	
	- Smoke detectors	Y	
	- Projected beam smoke Detectors	N/A	
	- Supervisory signal devices	N/A	
	- Water flow devices	N/A	
XII.i13	Combination systems		
	- Fire extinguisher electronic monitoring device / systems	N/A	
	- Carbon monoxide detectors / Systems	N/A	
XII.i14	Fire alarm control interface and emergency function interface	N/A	
XII.i15	Guard's tour equipment	N/A	
XII.i16	Notification appliances		
	- Audible appliances	Y	
	- Audible textual notification Appliances	N/A	



	- Visual appliances	Y	
XIV.i17	Exit marking audible notification Appliances	N/A	
XII.i18	Area of refuge two-way communication System		N/A
XII.i19	Supervising station alarm systems — Receivers		
	- Signal receipt	N/A	
	- Receivers		N/A
XII.i20	Public emergency alarm monitoring system transmission		
	- Publicly accessible alarm box	N/A	
	- Auxiliary box		N/A
	- Manual operation (Master box)	N/A	
	- Auxiliary operation (Master box)		N/A
XII.i21	Mass Notification Systems Monitored for Integrity		
	- Fuses (Control Equipment)		Y
	- Interfaces (Control Equipment)		N/A
	- Lamps/LED (Control Equipment)		Y
	- Primary (main) power supply (Control Equipment)		Y
	- Secondary power supplies		Y
	- Initiation devices		Y
	- Notification appliances		Y
XII.i22	Mass Notification Systems Not Monitored for Integrity		
	- Fuses (Control Equipment)	N/A	



	- Interfaces (Control Equipment)	N/A	
	- Lamps/LED (Control Equipment)	N/A	
	- Primary (main) power supply (Control Equipment)	N/A	
	- Secondary power batteries	N/A	
	- Initiation devices	N/A	
	- Notification appliances	N/A	
	- Antenna		N/A
	- Transceivers		N/A
XII.t	TESTING		
XII.t1	All equipment		Y
XII.t2	Control equipment and transponder		
	- Functions		Y
	- Fuses		Y
	- Interfaced equipment		Y
	- Lamps and LEDs		Y
	- Primary (main) power supply		Y
XII.t3	Fire alarm control unit trouble signals		
	- Audible and visual		Y
	- Disconnect switches		Y
	- Ground fault monitoring circuit		Y
	- Transmission of signals to off premises location		N/A
XII.t4	Supervising station alarm systems — transmission Equipment		
	- All equipment		N/A
	- Digital alarm communicator		N/A



	transmitter (DACT)		N/A
	- Digital alarm radio transmitter (DART)		N/A
	- McCulloh transmitter		N/A
	- Radio alarm transmitter (RAT)		N/A
	- Performance based Technologies		N/A
XII.t5	Emergency communications equipment		
	- Amplifier/tone generator		N/A
	- Call in signal silence		N/A
	- Off hook indicator (ring down)		N/A
	- Phone jacks		N/A
	- Phone set		N/A
	- System performance		N/A
XII.t6	Engine-driven generator	N/A	
XII.t7	Secondary (standby) power supply		Y
XII.t8	Uninterruptable Power Supply (UPS)		N/A
XII.t9	Battery test Lead acid type		
	- Battery replacement		N/A
	- Charger test		N/A
	- Discharge test		N/A
	- Load voltage test	N/A	
	- Specific gravity test	N/A	
XII.t10	Battery test Nickel cadium type		
	- Battery replacement		N/A



	- Charger test		N/A
	- Discharge test		N/A
	- Load voltage test	N/A	
XII.t12	Battery test Sealed lead acid type		
	- Battery replacement		Y
	- Charger test		Y
	- Discharge test		Y
	- Load voltage test	Y	
XII.t13	Public emergency alarm reporting system – wired system	N/A	
XII.t14	Remote annunciator		Y
XII.t15	Conductors metallic		
	- Stray voltage		Y
	- Ground faults		Y
	- Short circuits faults		Y
	- Loop resistance		N/A
	- Circuit integrity		Y
XII.t16	Conductors – non-metallic		
	- Fiber optic		N/A
	- Circuit integrity		N/A
XII.t17	Initiating devices - Electromechanical releasing device		
	- Nonrestorable type link		N/A
	- Restorable type link		N/A
XII.t18	Initiating devices - Fire extinguishing system(s) or suppression system(s)		N/A



	alarm switch		N/A
XII.t19	Initiating devices - Fire-gas and other Detectors		N/A
XII.t20	Initiating devices - Heat detectors		
	- Fixed-temperature, rate-of-rise, rate of compensation, restorable line, spot type (excluding pneumatic tube type		Y
	- Fixed-temperature, nonrestorable line type		N/A
	- Fixed-temperature, nonrestorable spot type		
	- Nonrestorable (general)		N/A
	- Restorable line type, pneumatic tube only		N/A
	- Single- and multiple-station heat alarms		N/A
	- Manual fire alarm boxes		Y
	- Radiant energy fire detectors	N/A	
XII.t21	Initiating devices – Smoke detectors functional test		
	- In other than one- and two-family dwellings, system detectors		Y
	- Single- and multiple-station smoke alarms connected to protected premises systems		N/A
	- System smoke detectors used in one- and two-family dwellings		N/A
	- Air sampling		N/A
	- Duct type		N/A
	- Projected beam type		N/A



	- Smoke detector with built-in thermal element		N/A
	- Smoke detectors with control output functions		N/A
XII.t22	Initiating devices – Smoke detectors sensitivity test		
	- In other than one- and two-family dwellings, system detectors		Y
	- Single- and multiple-station smoke alarms connected to protected premises systems		N/A
	- System smoke detectors used in one- and two-family dwellings		N/A
	- Air sampling		N/A
	- Duct type		N/A
	- Projected beam type		N/A
	- Smoke detector with built-in thermal element		N/A
	- Smoke detectors with control output functions		N/A
XII.t23	Smoke detectors—sensitivity testing		
	- Carbon monoxide detectors/carbon monoxide alarms for the purposes of fire detection		Y
XII.t24	Initiating devices – supervisory		
	- Control valve switch		N/A
	- High- or low-air pressure switch		N/A
	- Room temperature switch		N/A
	- Water level switch		N/A



	- Water temperature switch		N/A
XII.t25	Mechanical, electrosonic, or pressure-type waterflow device	N/A	
XII.t26	Multi-sensor fire detector or multi-criteria fire detector or combination fire detector		N/A
XII.t27	Special hazard equipment		
	- Abort switch (dead man type)		N/A
	- Abort switch (recycle type)		N/A
	- Abort switch (special type)		N/A
	- Cross zone detection circuit		N/A
	- Matrix type circuit		N/A
	- Release solenoid circuit		N/A
	- Squibb release circuit		N/A
	- Verified sequential or counting zone circuit		N/A
	- All above devices or circuits or combination thereof		N/A
XII.t28	Combination systems		
	- Fire extinguisher electronic monitoring device/system		N/A
	- Carbon monoxide device/system		N/A
	Interface equipment		
	Guard's tour equipment		N/A
	Alarm notification appliances		
	- Audible		
	- Audible textual notification appliances (speakers and other appliances to convey		N/A



	voice messages)		
	- Visible		Y
XII.t29	Exit marking audible notification Appliance		N/A
XII.t30	Emergency control functions		N/A
XII.t31	Area of refuge two-way communication System		N/A
XII.t32	Special procedures		
	- Alarm verification		Y
	- Multiplex systems		N/A
XII.t33	Supervising station alarm systems-receiving equipment		
	- All equipment	N/A	
	- Digital alarm communicator receiver (DACR)	N/A	
	- Digital alarm radio receiver (DARR)	N/A	
	- McCulloh systems	N/A	
	- Radio alarm supervising station receiver (RASSR) and radio alarm repeater station receiver (RARSR)	N/A	
	- Private microwave radio Systems	N/A	
	- Performance-based Technologies	N/A	
XII.t34	Public emergency alarm reporting system transmission equipment		
	- Publicly accessible alarm box	N/A	
	- Auxiliary box		N/A
	- Master box, Manual operatio	N/A	



	- Master box, Auxiliary operation		N/A
XII.t35	Low-power radio (wireless systems)		N/A
XII.t36	Mass notification systems		
	- Functions		Y
	- Fuses		Y
	- Interface equipment		Y
	- Lamps and LEDs		N/A
	- Audible textual notification appliances (speakers and other appliances to convey voice messages)		N/A
	- Visible		Y
	- Control unit functions and no diagnostic failures are indicated		N/A
	- Control unit reset		Y
	- Control unit security		Y
	- Audible/visible functional test		Y
	- Software backup		N/A
	- Secondary power test		Y
	- Wireless signals		N/A
	- Antenna		N/A
	- Transceivers		N/A
XII.m	MAINTENANCE		
XII.m1	Refer to manufacturer's instruction for complete maintenance procedure. (Note: May include all necessary daily or weekly activities to complete ITM procedures. Also, may include		



FIRE DETECTION AND ALARM SYSTEM INSPECTION AND TEST FORM (ANNUALLY)

Building Name : The Next Generation Preparatory school Al Daayen campus
Location : Building No : 101, Zone No : 70, Al daayen, Qatar
Year : 2021

Remarks

Y - Satisfactory N – Unsatisfactory N/A – Not Applicable

Notes

1. Fill up cells with “Y”, “N”, or “N/A”.
2. Additional comments can be added at the last page of this guide.
3. Methods of Inspection, Testing and Maintenance shall be based on Table 14.3.1 and Table 14.4.3.2 of NFPA 72 and/or Manufacturer’s recommendation.

SN	INSPECTION	Remarks
1I	All equipment	Y
2I	Control equipment	Y
	Fire alarm systems monitored for alarm, supervisory, and trouble signals	Y
	- Fuses	Y
	- Interface equipment	Y
	- Lamps and LEDs	Y
	- Primary (main) power supply	Y
3I	Supervising station alarm systems — transmitters	
	- Digital alarm communicator transmitter (DACT)	N/A
	- Digital alarm radio transmitter (DART)	N/A
	- McCulloh	N/A
	- Radio alarm transmitter (RAT)	N/A
	- All other types of communicators	N/A
4I	Notification appliance circuit power extenders	N/A
5I	Remote power supplies	N/A
6I	Fiber-optic cable connections	N/A
7I	Area of refuge two-way communication system	N/A



8I	Supervising station alarm systems — receivers	N/A
9I	Public emergency alarm reporting system transmission equipment	N/A
	- Auxiliary box	N/A
	- Master box, Auxiliary operation	N/A
10I	Mass notification system, Monitored for integrity	N/A
	- Fuses (Control equipment)	N/A
	- Interfaces (Control equipment)	Y
	- Lamps/LED (Control equipment)	N/A
	- Primary (main) power supply (Control equipment)	Y
	- Secondary power supply (Control equipment)	Y
	- Initiating devices	Y
	- Notification appliance	N/A
11I	Mass notification system, Monitored for integrity - Secondary power batteries	N/A
	- Antenna	N/A
	- Transceivers	N/A
TESTING		
1T	All Equipment	Y
2T	Control equipment and transponder	Y
	- Functions	Y
	- Fuses	Y
	- Interface equipment	Y
	- Lamps and LEDs	Y
	- Primary (main) power supply	Y
	3T	Fire alarm control unit trouble signals
	- Audible and visual	Y
	- Disconnect switches	Y
	- Ground-fault monitoring circuit	Y



	- Transmission of signals to off-premises location	N/A
4T	Supervising station alarm systems — transmission Equipment	
	- All equipment	N/A
	- Digital alarm communicator transmitter (DACT)	N/A
	- Digital alarm radio transmitter (DART)	N/A
	- McCulloh transmitter	N/A
	- Radio alarm transmitter (RAT)	N/A
	- Performance-based technologies	N/A
5T	Emergency communications equipment	N/A
	- Amplifier/tone generators	N/A
	- Call-in signal silence	N/A
	- Off-hook indicator (ring down)	N/A
	- Phone jacks	N/A
	- Phone set	N/A
	- System performance	N/A
6T	Engine-driven generator	N/A
7T	Secondary (standby) power supply	Y
8T	Uninterruptible power supply (UPS)	N/A
9T	Battery tests - Lead-acid type - Battery replacement - Charger test - Discharge test	N/A
10T	Battery tests - Nickel-cadmium type - Battery replacement - Charger test - Discharge test	N/A
11T	Battery tests – Sealed lead-acid type	Y



	<ul style="list-style-type: none">- Battery replacement- Charger test- Discharge test	Y
12T	Remote annunciators	N/A
13T	Conductors — metallic	Y
	<ul style="list-style-type: none">- Circuit Integrity	Y
14T	Conductors — non-metallic	N/A
	<ul style="list-style-type: none">- Fiber Optic	N/A
	<ul style="list-style-type: none">- Circuit Integrity	N/A
15T	Initiating device - Electromechanical releasing device	N/A
	<ul style="list-style-type: none">- Nonrestorable-type link	N/A
	<ul style="list-style-type: none">- Restorable-type link	N/A
16T	Initiating device - Fire extinguishing system(s) or suppression system(s) alarm switch	N/A
17T	Initiating device - Fire-gas and other detector	N/A
18T	Initiating devices - Heat detectors	
	<ul style="list-style-type: none">- Fixed-temperature, rate-of-rise, rate of compensation, restorable line, spot type (excluding pneumatic tube type)	Y
	<ul style="list-style-type: none">- Fixed-temperature, nonrestorable line type	N/A
	<ul style="list-style-type: none">- Fixed-temperature, nonrestorable spot type	N/A
	<ul style="list-style-type: none">- Nonrestorable (general)	N/A
	<ul style="list-style-type: none">- Restorable line type, pneumatic tube only	N/A
	<ul style="list-style-type: none">- Single- and multiple-station heat alarms	N/A
	<ul style="list-style-type: none">- Manual fire alarm boxes	N/A
19T	Initiating devices - Smoke detectors - functional test	Y
	<ul style="list-style-type: none">- In other than one- and two-family dwellings, system detectors	N/A
	<ul style="list-style-type: none">- Single- and multiple-station smoke alarms connected to protected premises Systems	N/A
	<ul style="list-style-type: none">- System smoke detectors used in one- and two-family dwellings	N/A



	- Air sampling	N/A
	- Duct type	N/A
	- Projected beam type	N/A
	- Smoke detector with built-in thermal element	N/A
	- Smoke detectors with control output functions	N/A
20T	Initiating devices – Smoke detectors sensitivity test	Y
	- In other than one- and two-family dwellings, system detectors	N/A
	- Single- and multiple-station smoke alarms connected to protected premises Systems	N/A
	- System smoke detectors used in one- and two-family dwellings	N/A
	- Air sampling	N/A
	- Duct type	N/A
	- Projected beam type	N/A
	- Smoke detector with built-in thermal element	N/A
	- Smoke detectors with control output functions	N/A
21T	Smoke detectors, sensitivity testing - Carbon monoxide detectors/carbon monoxide alarms for the purposes of fire detection	N/A
22T	Initiating devices, supervisory	
	- Control valve switch	N/A
	- High- or low-air pressure switch	N/A
	- Room temperature switch	N/A
	- Water level switch	N/A
	- Water temperature switch	N/A
23T	Multi-sensor fire detector or multi-criteria fire detector or combination fire detector	N/A
24T	Special hazard equipment	N/A
	- Abort switch (dead-man type)	N/A
	- Abort switch (recycle type)	N/A
	- Abort switch (special type)	N/A



	- Cross-zone detection circuit	N/A
	- Matrix-type circuit	N/A
	- Release solenoid circuit	N/A
	- Squibb release circuit	N/A
	- Verified, sequential, or counting zone circuit	N/A
	- All above devices or circuits or combinations thereof	N/A
25T	Combination systems	N/A
	- Fire extinguisher electronic monitoring device/system	N/A
	- Carbon monoxide device/system	N/A
26T	Interface equipment	Y
27T	Guard's tour equipment	N/A
28T	Alarm notification appliances	Y
	- Audible	Y
	- Audible textual notification appliances (speakers and other appliances to convey voice messages)	N/A
	- Visible	Y
29T	Exit marking audible notification appliance	N/A
30T	Emergency control functions	N/A
31T	Area of refuge two-way communication system	N/A
32T	Special procedures	N/A
	- Alarm verification	N/A
	- Multiplex systems	N/A
33T	Public emergency alarm reporting system transmission equipment	N/A
	- Auxiliary box	N/A
	- Master box, Auxiliary operation	N/A
34T	Low-power radio (wireless systems)	N/A
35T	Mass notification systems	N/A



FIRE DETECTION AND ALARM SYSTEM INSPECTION AND TEST FORM (SEMI-ANNUALLY)

Building Name : The next generation preparatory school
Location : Building No: 101, Zone No: 70, Al daayen, Qatar
Year : 2021

Remarks

Y - Satisfactory N – Unsatisfactory N/A – Not Applicable

Notes

1. Fill up cells with "Y", "N", or "N/A".
2. Additional comments can be added at the last page of this guide.
3. Methods of Inspection, Testing and Maintenance shall be based on Table 14.3.1 and Table 14.4.3.2 of NFPA 72 and/or Manufacturer's recommendation.

SN	INSPECTION	SA1	SA2
1I	Control equipment – Fire alarm systems monitored for alarm, supervisory, and trouble signals	Y	
	Trouble signals (Method: Verify a system normal condition.) refer to NFPA 72 Table 14.3.1		
2I	Control Equipment	Y	
	Fire alarm system unmonitored for alarm, supervisory and trouble signals		
	- Fuses	Y	
	- Interfaced equipment	Y	
	- Lamps and LEDs	Y	
	- Primary (main) power supply	Y	
	- Trouble signals		
3I	In-building fire emergency voice / alarm communications equipment	N/A	
	(Method: Verify location and condition.) refer to NFPA 72 Table 14.3.1		
4I	Batteries	Y	
	- Batteries - Lead Acid (Method: Inspect for corrosion or leakage. Verify tightness of connections. Verify marking of the month/ year of manufacture (all types).) refer to NFPA 72 Table 14.3.1	N/A	



MINISTRY OF INTERIOR
QATAR CIVIL DEFENSE
FIRE PREVENTION DEPARTMENT

Form SS-ITM-M/E-O-01

	- Batteries - Nickel-cadmium (Method: Inspect for corrosion or leakage. Verify tightness of connections. Verify marking of the month/ year of manufacture (all types).) refer to NFPA 72 Table 14.3.1	N/A	
	- Batteries - Primary (dry-cell) (Method: Inspect for corrosion or leakage. Verify tightness of connections. Verify marking of the month/ year of manufacture (all types).) refer to NFPA 72 Table 14.3.1	N/A	
	- Batteries - Sealed lead-acid (Method: Inspect for corrosion or leakage. Verify tightness of connections. Verify marking of the month/ year of manufacture (all types).) refer to NFPA 72 Table 14.3.1	Y	
5I	Remote annunciators (Method: Verify location and condition) refer to NFPA 72 Table 14.3.1		
6I	Transient suppressors (Method: Verify location and condition) refer to NFPA 72 Table 14.3.1	N/A	
7I	Initiating devices (Method) refer to NFPA 72 Table 14.3.1	N/A	
	- Air sampling (General) (Method: Verify that in-line filters, if any, are clean.) refer to NFPA 72 Table 14.3.1	N/A	
	- Duct detector	N/A	
	- Electromechanical releasing devices	N/A	
	- Fixed firefighting systems switches	N/A	
	- Manual fire alarm boxes	N/A	
	- Heat detector	Y	
	- Radiant energy fire detectors	N/A	
	- Video image smoke and fire detectors	N/A	
	- Smoke detector	Y	
	- Projected beam detector	N/A	
	- Supervisory signal devices	N/A	
	- Waterflow devices	N/A	
8I	Combination system		
	- Fire extinguisher electronic monitoring device/systems	N/A	
	- Carbon monoxide detectors/systems	N/A	

9I	Fire alarm control interface and emergency control function interface	N/A	
10I	Guard's tour equipment	N/A	
11I	Notification appliances	Y	
	- Audible appliances	Y	
	- Audible textual notification appliances	N/A	
	- Visible appliances	Y	
12I	Exit marking audible notification appliances	N/A	
13I	Supervising station alarm systems —receivers	N/A	
	- Signal receipt	N/A	
14I	Public emergency alarm reporting system transmission equipment	N/A	
	- Publicly accessible alarm box	N/A	
	- Master box, manual operation	N/A	
15I	Mass notification system	N/A	
	Not Monitored for Integrity		
	- Fuses (Control Equipment)	Y	
	- Interface (Control Equipment)	Y	
	- Lamps / LED (Control Equipment)	Y	
	- Primary (main) power supply (Control Equipment)	Y	
	- Secondary power batteries (Control Equipment)	Y	
	- Initiation devices	Y	
	- Notification appliances	Y	
SN	TESTING		
1T	Engine-driven generator	N/A	
2T	Battery test - Lead acid battery	N/A	
	- Load voltage test	N/A	
	- Specific gravity	N/A	
3T	Battery test - Nickel cadium battery	N/A	



	- Load voltage test	N/A	
4T	Battery test - Sealed lead acid battery	N/A	
	- Load voltage test	N/A	
5T	Public emergency alarm reporting system – wired system	N/A	
6T	Initiating devices	Y	
	- Radiant Energy detector	N/A	
7T	Mechanical, electrosonic, or pressure-type waterflow device	N/A	
8T	Supervising station alarm systems-receiving equipment		
	- All equipment	Y	
	- Digital alarm communicator receiver (DACR)	N/A	
	- Digital alarm radio receiver (DARR)	N/A	
	- McCulloh systems	N/A	
	- Radio alarm supervising station receiver (RASSR) and radio alarm repeater station receiver (RARSR)	N/A	
	- Private microwave radio systems	N/A	
	- Performance-based technologies	N/A	
8T	Public emergency alarm reporting system transmission equipment	N/A	
	- Publicly accessible alarm box	N/A	
	- Master box (1) Manual operation	N/A	
MAINTENANCE RECORDS :			
<input type="checkbox"/> (reference document : <u>attach if any</u>) _____			

SN	SIGNIFICANT COMMENTS (related to any deficiency / impairment)

