



SAFER BUILDINGS COALITION

Feel Safe Inside®

NFPA TOPIC	NFPA 72-2013	NFPA 1221-2016	NFPA 1221 - 2019	NFPA 1225 - 2022
In-Building Solution Required	NFPA 1 Section 11.10	NFPA 1 Section 11.10	NFPA 1 Section 11.10	NFPA 1 Section 11.10
Permit Required	Yes, Section 24.5.2.1.2	Yes, Section 9.6.6	Yes, Section 9.6.6	Yes, Section 18.7
Pathway Survivability for Coaxial Cable Required	2 Hour for Riser Coaxial Cable - Sec. 24.3.6.8	2 Hour for Riser Coaxial Cable - Sec. 9.6.2.1.3	Backbone Cable Routed Through Enclosure Matching Bldgs. Fire Rating - Sec. 9.6.2.3	Yes, Sections 18.12.3.3, 18.12.3.4, 18.12.3.5, & 18.12.3.6
Plenum Rated Coaxial Cable Required	Yes, Riser & Feeder Coaxial Cable - Sec. 24.3.6.8	Yes, Riser & Feeder Coaxial Cable - Sec. 9.6.2.1.1	Yes, Backbone & Distribution Antenna Cables Sec. 9.6.2.1	Yes, Backbone & Distribution Antenna Cables Sec. 18.12.3.1
Lightning Protection Required	Not Addressed in Section 24.5.2	Yes, Sec. 9.6.3 - Installed per NFPA 780	Yes, Sec. 9.6.3 - Installed per NFPA 780	Yes, Sec. 18.4
Isolation of Donor Antenna Required	Yes, 15db - Sec. 24.5.2.3.3	Yes, 20db - Sec. 9.6.9	Yes, 20 db Above System Gain - Sec. 9.6.9	Yes, Sec. 18.3.3.2 & 18.10
Battery Backup Required	12 Hours - Sec. 24.5.2.5.2	12 Hours - Sec. 9.6.12.2	12 Hours Battery or Generator - Sec. 9.6.12.2	Yes, 12 Hours Battery or Generator - Sec.18.13.2
Signal Strength & Area Coverage Required	-95 dBm Sec. 24.5.2.3 90% General - Sec. 24.5.2.2.2 99% Critical - Sec. 24.5.2.2.1	DAQ 3.0 Sec. 9.6.8 90% General - Sec. 9.6.7.5 99% Critical - Sec. 9.6.7.4	DAQ 3.0 9.6.8 90% General - Sec. 9.6.7.4 99% Critical - Sec. 9.6.7.3	DAQ 3.0 Sec. 18.9 95% General - Sec. 18.8.4 99% Critical - Sec. 18.8.3
Monitoring By Fire Alarm Required	Yes - Sec. 24.5.2.6	Yes - Sec. 9.6.13	Yes, Sec. 9.6.13 & Chapter 10 of NFPA 72	Yes, Sec. 18.14 & Chapter 10 of NFPA 72
Cabinets for Equipment and Battery Backup Required	Yes, NEMA 4/NEMA 4X - Sec. 24.5.2.5.2	Yes, NEMA 4/NEMA 4X - Sec. 9.6.11.2	Yes, NEMA 4/NEMA 4X & NEMA 3R for Batteries - Sec. 9.6.11.2	Yes, NEMA 4/NEMA 4X Batteries - NEMA 3R - Sec. 18.3.1



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Monitor Signal Source Malfunction Required	Yes, Donor Antenna - Sec. 24.5.2.6(2)(a)	Yes, Donor Antenna - Sec. 24.5.2.6(2)(a)	Yes, Donor Antenna - Sec. 9.6.13.2.1(5)	Yes, Sec. 18.14.1.2(2)(a)
System Acceptance Testing	Sec. 24.5.2.1.2 & 14.4.10	Sec. 9.6.4, 11.3.9 & 11.3.9.1	Sec. 9.6.4, 11.3.9 & 11.3.9.1	Yes, 18.5 & Section 20.3.10.1, See Annex
Listing of Equipment	Not Specifically Addressed	Not Specifically Addressed	Specific Listing Requirement is TBD by the AHJ	Yes, Sec. 18.12.1.3
Mounting of Donor Antenna	Not Specifically Addressed	Not Specifically Addressed	Not Specifically Addressed	Yes, Sec. 18.3.3
Noise Floor Requirement	Not Specifically Addressed	Not Specifically Addressed	Not Specifically Addressed	Yes, Sec. 18.9.3
Compliance with FCC Part 90.219	Not Specifically Listed in the Standard, Required by Federal Law	Not Specifically Listed in the Standard, Required by Federal Law	Not Specifically Listed in the Standard, Required by Federal Law	Yes, Sec. 18.7.2 & A.18.7.2 Also Req. Under FCC Rules in the US
Frequency License Holder Approval Required	Yes under FCC Part 90.219	Yes under FCC Part 90.219	Yes, Sec. 9.6.2, 9.6.6.1 & 9.6.6.2	Yes, Sections 18.2.1, 18.7 & 18.12.1.1
Communication Antenna Density/Near Far	Not Specifically Addressed	Not Specifically Addressed	Yes, Sec. 9.6.7.6	Yes, Sec. 18.3.4
Frequencies Required May Include LTE, FirstNet	All assigned frequencies & any modulation technology Sec. 24.5.2.4	All assigned frequencies & any modulation technology Sec. 9.6.10	All assigned frequencies & any modulation technology Sec.	All assigned frequencies & any modulation technology Sec. 18.11
Dedicated Annunciation Required	Where Required, Sec. 24.5.2.6.2	Where Required, Sec. 9.6.13.2	Where Required, Sec. 9.6.13.2	Where Required, Sec. 18.14.2