



SAFER BUILDINGS COALITION

Feel Safe Inside®

IFC TOPIC	IFC 2015	IFC 2018	IFC 2021	IFC 2024 DRAFT
In-Building Solution Required	Sec. 510.1	Sec. 510.1	Section 510.1	Sec. 510.1 Note: Exception 4 One Story Buildings less than 12,000 Sq. Ft.
Permit Required	Yes, Section 510.3	Yes, Section 510.3	Yes, Section 510.3	Yes, Sec.
Pathway Survivability for Coaxial Cable Required	Not Specifically Addressed in Section 510. Referenced in 2013 NFPA 72 Section 24.3.6.8	Yes, Section 510.4.2 Reference to NFPA 1221 Note: Also See NFPA 1221 TIA 16-2	Yes, Sec. 510.4.2 Reference to NFPA 1221	, Where Required in NFPA 1225 2022 Edition
Plenum Rated Coaxial Cable Required	Not Specifically Addressed in Section 510. Referenced in 2013 NFPA 72 Section 24.3.6.8	Yes, Sec. 510.4.2 Reference to NFPA 1221	Yes, Sec. 510.4.2 Reference to NFPA 1221	Yes, Sec. Reference to NFPA 1225
Lightning Protection Required	Not Specifically Addressed in Section 510	Yes, Sec. 510.4.2 Reference to NFPA 1221	Yes, Sec. 510.4.2 Reference to NFPA 1221	Yes, Sec. Reference to NFPA 1225
Isolation of Donor Antenna Required	Not Specifically Addressed in Sec. 510	Yes, 20db - Sec. 9.6.9	Yes, 20 db Above System Gain - Sec. 9.6.9	Yes, 20 db Above System Gain - Sec.
Battery Backup Required	24 Hours - Sec. 510.4.2.3	12 Hours - Sec. 510.4.2.3 or 2-Hours Battery w/ Emergency Generator	12 Hours - Sec. 510.4.2.3 or 2-Hours Battery w/ Emergency Generator	12 Hours - Sec. or 2-Hours Battery w/ Emergency Generator
Signal Strength & Area Coverage Required	-95 dBm Sec. 510.4.1 95% General - Sec. 510.4.1 99% Critical - Not Specifically Addressed in Sec. 510	DAQ 3.0 Sec. 510.4.1.1 95% General - Sec. 510.4.1 99% Critical - Sec. 510.4.2 Reference to NFPA 1221	DAQ 3.0 Sec. 510.4.1.1 95% General - Sec. 510.4.1 99% Critical - Sec. 510.4.2 Reference to NFPA 1221	DAQ 3.0 Sec. 95% General - Sec. 99% Critical - Sec.
Monitoring By Fire Alarm Required	Not Specifically Addressed in Sec. 510 - See 2013 Ed. NFPA 72	Yes - Sec. 510.4.2.5	Yes - Sec. 510.4.2.5	Yes, Sec.
Cabinets for Equipment and Battery Backup Required	Yes, NEMA 4 - Sec. 510.4.2.4 (1) & (2)	Yes, NEMA 4/NEMA 3R - Sec. 510.4.2.4 (1) & (2)	Yes, NEMA 4/NEMA 3R - Sec. 510.4.2.4 (1) & (2)	Yes, NEMA 4/NEMA 3R - Sec.



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Monitor Signal Source Malfunction Required	Not Specifically Addressed in Section 510	Yes, Donor Antenna - Sec. 510.4.2.4(4)	Yes, Donor Antenna - Sec. 510.4.2.4(4)	Yes, Signal Source Sec.
System Acceptance Testing	Yes, Sec. 510.5.3	Yes, Sec. 510.5.3	Yes, New Systems Sec. 510.5.4 Annual - Section 510.6.1	Yes, Sec.
Listing of Equipment	Not Specifically Addressed in Section 510	Not Specifically Addressed in Section 510	Yes, Sec. 510.4	Yes, Sec.
Mounting of Donor Antenna	Not Specifically Addressed in Section 510	Not Specifically Addressed in Section 510	Yes, Sec. 510.5.1	Yes, Sec.
Noise Floor Requirement	Not Specifically Addressed in Section 510	Not Specifically Addressed in Section 510	Not Specifically Addressed in Section 510	Yes, Sec. Reference to NFPA 1225
Compliance with FCC Part 90.219	Yes, Sec. 510.5.4	Yes, Sec. 510.5.4	Yes, Sec. 510.5.5	Yes, Sec.
Frequency License Holder Approval Required	Yes under FCC Part 90.219 Referenced in Sec. 510.4	Yes under FCC Part 90.219 Referenced in Sec. 510.4	Yes under FCC Part 90.219 Referenced in Sec. 510.5	Yes, Sec.
Communication Antenna Density/Near Far	Not Specifically Addressed in Section 510	Yes, Sec. 510.4.2.8	Yes, Sec. 510.4.2.8	Yes, Sec. 18.3.4
Frequencies Required May Include LTE, FirstNet	Yes, Sec. 501.6.2 Additional Frequencies Made Available by FCC	Yes, Sec. 501.6.2 Additional Frequencies Made Available by FCC	Yes, Sec. 501.6.2 Additional Frequencies Made Available by FCC	Yes, Sec. Also see NFPA 1225 A3.3.63
Dedicated Annunciator Required	Not Specifically Addressed in Section 510	Sec. 510.4.2 Where Required by NFPA 1221	Sec. 510.4.2 Where Required by NFPA 1221	Sec. Where Required by NFPA 1225