

2.5-5.3.4.2 All computer and networking equipment shall be served by UPS power.

2.5-5.3.4.3 All circuits serving the equipment in the technology equipment room shall be dedicated to serving the technology equipment room only.

2.5-5.3.4.4 Cooling and heating shall be provided for technology equipment and data room(s).

- (1) Cooling systems serving the technology equipment room shall be supplied by the essential power system.
- (2) Temperature control systems in technology equipment room(s) shall be designed to maintain environmental conditions recommended in ASHRAE's *Thermal Guidelines for Data Processing Environments* or the requirements for the specific equipment installed.

2.5-5.4 Grounding for Telecommunication Spaces

2.5-5.4.1 Grounding, bonding, and electrical protection shall meet the requirements of NFPA 70 and TIA 607: *Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications*.

2.5-5.4.2 TGB bar

2.5-5.4.2.1 The telecommunications grounding bus (TGB) bar shall be drilled with holes according to National Electrical Manufacturing Association standards to accommodate bolted compression fittings.

2.5-5.4.2.2 All racks, cabinets, sections of cable tray, and metal components of the technology system that do not carry electrical current shall be grounded to this bus bar.

2.5-5.4.2.3 TGB bars shall be connected by a backbone of insulated, #6 (minimum) to 3/0 AWG stranded copper cable between all technology rooms.

2.5-5.5 Cabling Pathways and Raceway Requirements

Pathways and raceways distributing cabling between teledata rooms shall be enclosed in conduit for protection from damage.

■ **2.5-6 Electronic Safety and Security Systems**

2.5-6.1 General

Evaluation of the type of safety and security systems shall be completed and implemented based on the care population being served and the demographics of the project location.

2.5-6.2 Safety and Security System Equipment

***2.5-6.2.1 General**

Means for provision of a safe environment for visitor and staff access shall be provided.

2.5-6.2.2 Locations for Safety and Security Equipment

2.5-6.2.2.1 Central location

- (1) A central location for safety and security equipment shall be provided.
- (2) Safety and security equipment shall be permitted to be located with teledata communications equipment. See Section 2.5-5.1.2 (Communications System Equipment Requirements) for additional requirements.

2.5-6.2.2.2 Locations for terminating safety and security system devices shall be provided.

2.5-6.3 Fire Alarm System

Fire alarm and detection systems shall be provided in compliance with NFPA 101: *Life Safety Code*® and NFPA 72: *National Fire Alarm and Signaling Code*.

APPENDIX

A2.5-6.2.1 Safety and security system equipment.

Consider use of security cameras, remote lock access, intercoms, adequate lighting, security alarms, and other types of security equipment

to provide a safe environment. In particular, use of camera monitoring equipment in centralized medication preparation areas and in corridors to/from the outside should be considered based on the care population.