PART 1 - GENERAL

1.01 OVERVIEW

A. As design guideline for MD Anderson Cancer Center (MDACC), this document shall be applied to new construction as well as renovation and with Environmental Health and Safety department (EH&S) implications from the very first planning and design stages through actual construction and facilities maintenance and management. This is necessary to negate the need for potentially costly retrofits. The information included contains recommended actions, materials to be used or design standards that the EH&S staff have found to be appropriate to assure the quality desired at the Institution now and through the future maintenance of these facilities. Facilities management staff, as well as outside architects, consultants and contractors shall become familiar with these standards.

B. The term “Owner” shall include a representative from EH&S of MDACC but is not limited to represent the Owner exclusively. EH&S of MDACC is the local Authority Having Jurisdiction (AHJ) for fire alarm and smoke detection systems equipment, materials, installation and applicable Code interpretations. Coordinate all activities to include all of the Owner’s representatives.

PART 2 - DESIGN CRITERIA

2.01 GENERAL

A. Refer to Design Guideline Element Z2005 for Codes and Applicable Regulatory Agencies.

B. The A/E shall make themselves aware of all applicable codes and ordinances and assure that design and installation are in compliance with code requirements thereto.

C. Where provisions for building expansion are required, system equipment capacity, power supply, and other arrangement shall accommodate proposed demand.

2.02 FIRE ALARM AND SMOKE DETECTOR SYSTEMS

A. Fire alarm and smoke detector systems shall be designed to the latest version of the NFPA code adopted by the Texas State Fire Marshal's Office as applicable to properties owned by the State of Texas. Beyond the code required design, detection circuits may be extended to exit access corridor coverage, but in general shall not extend to “full detection coverage”, except by specific recommendation by the Owner’s Project Management and EH&S.

1. As specified, notification circuits shall be arranged to be capable of producing live or recorded announcements by virtue of the installation of speakers or speaker/visual appliances and appropriate circuitry to support the feature. Actual execution of the feature shall not be required in certain off-site facilities that will be evacuated upon general alarm as determined by the Owner’s Project Management. The implication is then that on such Owner approved systems the fire alarm CPU need not actually be programmed to deliver the voice messaging, however the wiring and amplification
infrastructure needs to be installed. These types of installations will then be programmed to chime.

2. There are two different fire alarm networks at MD Anderson; one Simplex brand, the other Edwards Systems Technology (EST) brand. Any fire alarm systems installed must be of the same manufacture as one of these two systems to make fully compatible, fully functional alarm systems.

B. The approximate locations and quantity of fire alarm devices are indicated on original drawings provided by the A/E. Drawings provided by the A/E shall conspicuously state "Fire alarm and smoke detector devices shown on the drawings are diagrammatic in nature and shall be furnished and installed per code."

PART 3 - SPECIAL REQUIREMENTS FOR RENOVATION AND EXPANSION

3.01 GENERAL

A. Where renovations and expansions occur in a building, the entire alarm system for that building shall be of one manufacturer and fully integrated with existing fire alarm network.

B. Where a building's fire alarm system is being added to or modified, the wiring method shall match the building's predominant existing wiring method. Device mounting height shall be code compliance and match existing to avoid an uneven appearance.

PART 4 - PRODUCTS

4.01 GENERAL

A. Refer to Owner's Master Construction Specifications. These are available on the Owner's Design Guidelines website: http://www2.mdanderson.org/depts/cpm/standards/specs.html

B. System design and components specified for renovation of existing facilities shall be compatible with existing installation.

PART 5 - DOCUMENT REVISION HISTORY

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