

CHAPTER V

ELECTRICAL INSTALLATIONS

1. The installation of all electrical wiring and apparatus for lighting, power, and electric appliances shall be done in accordance with the requirements of the National Electrical Code, the Underwriters' Laboratories, the National Board of Fire Underwriters and other applicable codes.

- a) Lighting.

The technology of lighting for schools has changed greatly in recent years. Terminology has become more refined with the advent of controlled environments for educational programs, use of teaching aids, and other visual media.

A good visual environment permits fast, accurate and comfortable seeing-control of glare producing light sources, brightness contrasts of surfaces within the room, and other factors which affect visual acuity or eye comfort must be considered. Illuminating engineers and architects now use design parameters for lighting which take into account not only measurement of footcandles at the task being performed but also the level of task illumination and effects of brightness, reflections, and the differences in brightness along the eye of sight.

Energy conservation: A high percentage of a school's electrical power consumption goes into lighting. New design approaches, along with more efficient lamps and luminaries, and localized controls, make energy designs possible with no loss of light intensity.

The design and specifications for illumination levels for various tasks and locations should be provided by a qualified lighting engineer.

- b) Technology.

Computer technology for schools has changed greatly in recent years. The design and specifications for computer hardware, software, conduits and wiring should be provided by the Mississippi Department of Education, Office of Educational Technology, phone number 359-3954.