SECTION 16610D - EMERGENCY LIGHT AND POWER

A. ALTERNATE POWER SOURCES: The University Master Plan provided for connecting groups of building with parallel power circuits for obtaining electric power supply to a building from alternate sources. Where the interruption of electrical supply to a building would result in hazard to life or property, major loss of research or equipment, provision shall be made for emergency supply of power, to be used in the event of failure of the normal supply. Details of the plans as they apply to the project shall be explained and included in the early Design/Development submittal and conferences. If tie-in on existing circuit or feeder is not practical at present, provision shall be made for the future.

1. Automatic Transfer Equipment: Reliable equipment and transfer switch must be specified.

B. EMERGENCY STANDBY EQUIPMENT SYSTEMS: It is required that provision be made by designing an emergency system/standby power source supplied by: a) Engine Generator, b) Local Battery, c) Separate Emergency Source.

Exception: Tapping ahead of the main disconnect switch as an emergency means of power is not permitted except as a subservice for maintenance purposes.

1. Emergency Generator drives may not be naturally aspirated gas engines. When emergency generators are specified, the Associate must include requirements for demonstrated load tests by a factory representative.
2. Lights, when an emergency lighting or generator system is provided, emergency lights will be included at the generator, all mechanical equipment spaces, and in electric transformer and switchgear spaces.

C. AN EMERGENCY PANELBOARD shall be provided for:

1. Exit lights.
2. Minimal hallway and stairway lighting and telephone power.
3. Fire alarms, building security equipment, and fire protection systems.
4. Elevators when required by OBBC.

D. WIRING FOR EMERGENCY SYSTEMS shall be in separate conduits.

1. Switches for emergency lighting circuits shall not be accessible to the public.

E. PARKING GARAGES shall have emergency generators to provide emergency power during an outage. Battery packs are not acceptable. Power shall be supplied through automatic transfer switches for the following:
1. Fire pump and jockey pump (if required) and air compressor.
2. Building fire management system.
3. Fuel oil pump.
4. Telephone power system.
5. Elevator lights.
6. Minimum lighting system.
7. Any other system or components as may be required by code.
8. Provide a fuel oil tank sized to contain sufficient fuel to provide a minimum of 8 hours of fuel to generator.

END