

# STATE UNIVERSITY CONSTRUCTION FUND PROGRAM DIRECTIVES

DIRECTIVE 16-2

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## GROUND FAULT PROTECTION SYSTEMS

### 1. General

- a. Purpose: To describe special requirements for ground fault protection systems.
- b. Objective: To improve electric service continuity through provision of coordinated ground fault protection.

### 2. Policy

Provide coordinated ground fault protection systems on electrical distribution systems in hospitals, hospital research facilities, basic science buildings and any distribution system exceeding 480 volts.

### 3. Design and Performance Criteria

Provide for mechanical ground consisting of fifth wire, increased conduit size, increased panel gutter capacities, inclusion of local panel torroids, pilot circuits, fuses, shunt tripped panel main circuit breakers, insulated neutral buses and a fault sequence analysis for hospitals, hospital research facilities, basic science buildings and any distribution system exceeding 480 volts.

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