

DIVISION 16 - ELECTRICAL

Section 16660 - Ground Fault Protection Systems

Introduction

All building main distribution systems shall have a ground fault protection system as a part of the secondary main disconnect at the building. This is required per the NEC for services of 1000 amps and larger.

GFI receptacles shall be used for drinking fountains and wherever a receptacle is within 6' of a sink or an emergency shower and where otherwise required by the NEC or good engineering practice.

GFI receptacles shall not be feed through type. Each location required shall have its own GFI receptacle.

It may be necessary to add GFI protection to services where an adequate ground is not available and where danger of electrocution is possible. An example of this would be an overhead crane where only a three wire system has been connected to the service and where the danger of electrocution is greater than the possible danger from loss of power to the overhead crane.

All kitchen receptacles shall be GFCI per the NEC. Refrigerators shall be placed on 30 milliamp GFCI receptacle.

Part 1 - General

- Provide complete submittals for all devices supplied under this section.

Part 2 - Products

- GFI relays provided as a part of a main switchboard shall be as recommended by the manufacturer of the switchboard.
- GFI receptacles shall be heavy duty specification grade receptacles similar to Plug back Hubbell GFRST20Snap.

Part 3 - Execution

- Install all devices in accordance with the manufacturer's recommendations. For service entrance systems the device shall be tested following installation in accordance with NETA testing standards.
- Each GFI receptacle shall be tested for proper operation following installation.

End of Section 16660