

DRAFT REGULATION

SHIELDED CABLES AND SENSITIVE GROUND FAULT

Section 208.____

All three phase electrically operated equipment operated on a working section in by the last open crosscut shall receive power either from a circuit equipped with sensitive ground fault protection or a shielded trailing cable, at the option of the operator, as specified herein:

1. Sensitive Ground Fault
 - a. A sensitive ground fault protective device on circuits not utilizing a variable speed drive shall be connected so that the associated circuit will be instantaneously interrupted upon the occurrence of a ground fault which shall not exceed 300 milli-amperes nominally; or
 - b. A sensitive ground fault protective device on such circuits on equipment utilizing variable speed drives shall be connected so that the associated circuit will be instantaneously interrupted upon the occurrence of a ground fault which shall not exceed 300 milli-amperes nominally; provided, that if nuisance tripping occurs on such circuits, such devices shall be permitted to be adjusted to the minimum setting necessary to prevent nuisance tripping. In no case shall the device(s) be adjusted greater than one half of the neutral ground resistor's current rating;
 - c. The secondary main circuit breaker protecting any sensitive ground fault circuit subject to this regulation shall also provide 'backup' sensitive ground fault protection. Relay settings may include a short time delay (250mS) and/or a higher current setting to provide coordination. A higher current setting cannot exceed 1/2 the neutral ground resistor rating.

2. Shielded Cables

- a. Alternatively, instead of sensitive ground fault protection, portable cables for equipment described in the preceding section shall include grounded metallic shields around each power conductor or a grounded metallic shield over the assembly;

3. Implementation Schedule

- a. This requirement is effective and sensitive ground fault protection or cable shielding shall be installed and maintained 60 months after the effective date of this regulation for all section load centers that power equipment that operates inby the last open crosscut or equipment that operates inby the last open crosscut.